Construction News

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 19	Mishawaka, Ind.	Feb. 8
Feb. 19	Carlyle, Ill.	Feb. 1
Feb. 19	St. Paul, Minn.	Feb. 8
Feb. 20	Puyallup, Wash.	Feb. 8
Feb. 21	Dayton, O.	Feb. 15
Feb. 22	Whitby, Ont.	Feb. 8
Feb. 27	Canton, Ill.	Feb. 1
Feb. 27	La Porte, Ind.	Feb. 8
Mar. 5	Bay City, Mich.	Feb. 15
Mar. 6	Toronto, Ont.	Feb. 1
Mar. 7	Rawlins, Wyo.	Feb. 1
Mar. 7	Baltimore, Md. Adv. Feb. 15.	Feb. 15

SEWERS

Feb. 19	Clinton, Ia.	Feb. 15
Feb. 19	Akron, O.	Feb. 15
Feb. 21	Sturgis, Mich. Adv. Feb. 8 and 15.	Feb. 8
Feb. 21	Dayton, O.	Feb. 15
Feb. 21	Ashtabula, O. Adv. Feb. 15.	Feb. 15
Feb. 21	Phila., Pa.	Feb. 15
Feb. 23	Portland, Ore.	Jan. 11
Feb. 23	Scottsville, N. Y.	Feb. 1
Feb. 23	Cleveland, O.	Feb. 15
Feb. 23	Milwaukee, Wis. Adv. Feb. 15.	Feb. 15
Feb. 24	Cuba, N. Y. Adv. Feb. 1 to 15.	Feb. 1
Feb. 26	Blasdell, N. Y. Adv. Feb. 15.	Feb. 15
Mar. 3	Milwaukee, Wis. Adv. Feb. 15.	Feb. 15
Mar. 12	New Castle, Pa. Adv. Jan. 25 to Feb. 15.	Jan. 25
Mar. 13	Matawan, N. J. Adv. Feb. 15.	Feb. 15

WASTE DISPOSAL

Feb. 21	Sea Cliff, N. Y. Adv. Feb. 8 and 15.	Feb. 8
Feb. 26	Tulsa, Okla.	Feb. 1
Mar. 1	Spokane, Wash.	Jan. 18

BRIDGES

Feb. 19	Alabama	Jan. 25
Feb. 19	Seattle, Wash.	Feb. 1
Feb. 20	Merrill, Wis.	Feb. 15
Feb. 20	Northwood, Ia.	Feb. 15
Feb. 20	Chautauqua, Kan.	Feb. 8
Feb. 23	Lewiston, Pa.	Feb. 8
Feb. 24	Rockwell City, Ia.	Feb. 8
Feb. 26	Massena, N. Y. Adv. Feb. 8 and 15.	
Feb. 26	Portland, Ore.	Feb. 15
Feb. 27	Trenton, N. J. Adv. Feb. 15.	Feb. 15
Mar. 1	Indianapolis, Ind.	Feb. 15
Mar. 21	Brainerd, Minn.	Feb. 15
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

DAMS

Feb. 20	Quebec, Que.	Feb. 1
Feb. 26	Napa, Calif.	Feb. 8
Feb. 28	Illinois Adv. Feb. 1 to 15.	Feb. 1

EXCAVATION, DRAINAGE, IRRIGATION

Feb. 22	Beardstown, Ill. Adv. Feb. 15.	Feb. 15
Feb. 23	Oroville, Calif.	Feb. 15
Feb. 27	Watertown, Wis.	Feb. 15
Feb. 27	Whitham, Mo.	Feb. 15
Mar. 1	Redwood Falls, Minn.	Feb. 15
Mar. 2	Redwood Falls, Minn.	Feb. 15
Mar. 3	Manawa, Wis.	Feb. 15

STREETS AND ROADS

Feb. 19	Spring Lake, N. J.	Feb. 8
Feb. 19	Virginia	Feb. 8
Feb. 19	Alabama	Jan. 25
Feb. 19	New York, N. Y.	Feb. 15
Feb. 20	Waseca, Minn.	Jan. 25
Feb. 20	Charleston, S. C.	Feb. 1
Feb. 20	Chicago, Ill.	Feb. 15
Feb. 20	Northwood, Ia.	Feb. 15
Feb. 20	Phila., Pa.	Feb. 15
Feb. 20	Racine, Wis.	Feb. 15
Feb. 20	Fredonia, Kan.	Feb. 15
Feb. 20	Hibbing, Minn.	Feb. 15
Feb. 20	New London, Wis.	Feb. 15
Feb. 21	Owen, Wis.	Feb. 8
Feb. 21	Wisconsin Rapids, Wis.	Feb. 15
Feb. 21	Port Washington, Wis.	Feb. 15
Feb. 21	Bastrop, Tex.	Feb. 15
Feb. 23	Abilene, Tex.	Feb. 15
Feb. 24	Kenosha, Wis.	Feb. 15
Feb. 26	Tekamah, Neb.	Feb. 8
Feb. 26	Ontario	Feb. 1
Feb. 26	Madison, S. D.	Feb. 8
Feb. 26	Goshen, Ind.	Feb. 15
Feb. 26	Wahpeton, N. D.	Feb. 15
Feb. 26	San Diego, Calif.	Feb. 15
Feb. 26	Gowrie, Ia.	Feb. 15
Feb. 26	Ravenna, O.	Feb. 15
Feb. 26	Goshen, Ind.	Feb. 15
Feb. 27	Green Bay, Wis.	Feb. 15
Feb. 27	Fergus Falls, Minn.	Feb. 15
Feb. 28	Leavenworth, Kan.	Feb. 15
Feb. 28	Waukesha, Wis.	Feb. 15
Mar. 1	Marshall, Minn.	Jan. 25
Mar. 1	Columbus, O.	Feb. 8
Mar. 1	Indianapolis, Ind.	Feb. 15
Mar. 1	Wash., D. C. Adv. Feb. 15.	Feb. 15
Mar. 2	Ebensburg, Pa.	Feb. 15
Mar. 5	Hillsdale, Mich.	Jan. 25
Mar. 5	Casper, Wyo.	Feb. 15
Mar. 6	West Virginia Adv. Feb. 15.	Feb. 15
Mar. 14	Mayville, Wis.	Feb. 15
Apr. 1	Huntingdon, Pa.	Feb. 8
Apr. 3	Amsterdam, N. Y.	Feb. 1
Apr. 23	Spokane, Wash.	Feb. 1

INDUSTRIAL WORK

Feb. 19	Cincinnati, O.	Feb. 15
Feb. 19	Jackson, Mich.	Feb. 15
Feb. 20	River Rouge, Mich.	Feb. 15
Feb. 23	St. Louis, Mo.	Feb. 1
Feb. 23	Barnesboro, Pa.	Feb. 15
Feb. 24	Columbus, Miss.	Feb. 1

BUILDINGS

Feb. 19	Brooklyn, N. Y.	Feb. 8
Feb. 19	Trafford, Pa.	Feb. 1
Feb. 19	Albion, Mich.	Feb. 8
Feb. 19	Baltimore, Md.	Feb. 15
Feb. 19	Minneapolis, Minn.	Feb. 15
Feb. 19	Gambier, O.	Feb. 15
Feb. 20	San Jose, Calif.	Feb. 8
Feb. 20	Kenosha, Wis.	Feb. 8
Feb. 20	Columbus, O.	Feb. 8
Feb. 20	Minneapolis, Minn.	Feb. 15
Feb. 20	Wausau, Wis.	Feb. 15
Feb. 21	Jamestown, N. Y.	Feb. 1
Feb. 21	Cleveland Heights (Warrensville P. O.), O.	Feb. 1
Feb. 21	Uxbridge, Ont.	Feb. 15
Feb. 23	Jamestown, N. Y.	Jan. 11
Feb. 23	Jamestown, N. D.	Jan. 25
Feb. 23	Roxbury (Boston P. O.), Mass.	Feb. 1
Feb. 23	Toledo, O.	Feb. 8
Feb. 23	Owego, N. Y.	Feb. 8
Feb. 23	Minneapolis, Minn.	Feb. 15
Feb. 23	New York, N. Y.	Feb. 15
Feb. 24	Eveleth, Minn.	Feb. 8
Feb. 24	Lorain, O.	Feb. 15
Feb. 24	Mountain View, Calif.	Feb. 15
Feb. 25	Niagara Falls, N. Y.	Feb. 15
Feb. 26	New Brunswick, N. J.	Feb. 8
Feb. 26	Attica, N. Y.	Feb. 1
Feb. 26	Whitehall, N. Y.	Feb. 1
Feb. 26	Johnson City, Tenn.	Feb. 15
Feb. 26	State Center, Ia.	Feb. 15
Feb. 26	Braddock, Pa.	Feb. 15
Feb. 27	Roosevelt, N. Y.	Feb. 1
Feb. 27	Troy, Pa.	Feb. 8
Feb. 27	Cedar Falls, Ia.	Feb. 15
Feb. 28	Memphis, Tenn.	Feb. 8
Feb. 28	Phila., Pa.	Feb. 15
Mar. 1	Red Lion, Pa.	Jan. 18
Mar. 1	Denver, Colo.	Jan. 18
Mar. 1	Chico, Calif.	Feb. 8
Mar. 5	Albany, N. Y.	Feb. 15
Mar. 9	Wapello, Ia.	Feb. 15
Mar. 10	Greenfield, O.	Feb. 15
Mar. 12	Wichita, Kan.	Feb. 15
Mar. 15	Duluth, Minn.	Jan. 18
Mar. 15	Trenton, N. J.	Jan. 11
Mar. 19	Erie, Pa.	Feb. 15
Mar. 23	Shreveport, La.	Nov. 9
Apr. 1	Oil City, Pa.	Jan. 18

FEDERAL GOVERNMENT WORK

Feb. 17	Tanks—Florence, Ala. Adv. Jan. 25 to Feb. 15.	Jan. 25
Feb. 19	Post Office—Nogales, Ariz.	Jan. 25
Feb. 20	Barges — Huntington, W. Va.	Feb. 8
Feb. 21	Dredging—Galveston, Tex. Adv. Jan. 11, 18, Feb. 8 and 15.	Jan. 11
Feb. 21	Castings, etc. — Florence, Ala. Adv. Jan. 25 to Feb. 15.	Jan. 25
Feb. 21	Refrigerating Equipment — Gulfport, Miss. Adv. Feb. 8 and 15.	Feb. 1
Feb. 21	Stack—Gulfport, Miss. Adv. Feb. 8 and 15.	Feb. 15
Feb. 24	Quarter-boat and Barges — Wilmington, Del. Adv. Jan. 25 to Feb. 15.	Jan. 25
Feb. 24	Barge—Phila., Pa.	Feb. 8
Feb. 26	Hospital—Gulfport, Miss. Adv. Feb. 8 and 15.	Feb. 1
Feb. 28	Extension — Mare Island, Calif.	Feb. 1
Feb. 28	Distilling Apparatus, etc. — Guantanamo, Cuba Adv. Feb. 15.	Feb. 15
Mar. 2	Stone—Eureka, Calif.	Feb. 1
Mar. 2	Dredging—New York, N. Y. Adv. Feb. 8 and 15.	Feb. 8
Mar. 5	Protection, etc. — Boston, Mass.	Feb. 8
Mar. 6	Towboat—Nashville, Tenn. Adv. Feb. 8 and 15.	Feb. 8
Mar. 7	Dredging — Providence, R. I. Adv. Feb. 8 and 15.	Feb. 15
Mar. 7	Riprapping — Mare Island, Calif.	Feb. 15
Mar. 12	Barge—Florence, Ala. Adv. Feb. 15.	Feb. 15
Mar. 13	Turbine and Generator, etc.—Riverton, Wyo. Adv. Feb. 15.	Feb. 15
Mar. 15	Dredging—New York, N. Y. Adv. Feb. 15.	Feb. 15
Mar. 17	Houses — Huntington, W. Va. Adv. Feb. 15.	Feb. 15
May 10	Post Office — Cordova, Alaska	Jan. 25

MISCELLANEOUS

Feb. 19	Brick—Wash., D. C.	Jan. 25
Feb. 19	Steel Dump Hoist—San Jose, Calif.	Feb. 1
Feb. 19	Metal and Lumber—Muscatine, Ia.	Feb. 8
Feb. 19	White and Rock Oak Plank, etc.—Elmira, N. Y.	Feb. 15
Feb. 20	Terra Cotta Pipe Drains, etc. —Charleston, S. C.	Feb. 1
Feb. 20	Supplies—Ottawa, Ont.	Feb. 15
Feb. 20	Bridge Material — Onawa, Ia.	Feb. 15
Feb. 21	Lumber, etc. — Marion, Ia.	Feb. 15
Feb. 21	Corporation Cocks, etc.—New York, N. Y.	Feb. 15
Feb. 22	Wharf—Grand River, Que.	Feb. 1
Feb. 23	Culverts, etc. — Osceola, Ia.	Feb. 15
Feb. 23	Lime Dust, etc. — Cleveland, O.	Feb. 15
Feb. 26	Street Lighting System — Plattsmouth, Neb.	Feb. 8
Feb. 26	Brick—Wilkinsburg, Pa.	Feb. 15
Feb. 27	Cement, Trap Rock, etc.—Holyoke, Mass.	Feb. 15
Feb. 28	Sanitary Work, etc.—Middletown, N. Y. Adv. Feb. 8 and 15.	Feb. 15
Mar. 6	Road Maintenance Machine—Stillwater, Minn.	Feb. 15

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Albany — Bd. Pub. Wks., plans additions to present water supply system, and change from gravity to force method. $750,000. A. Hazen, 30 East 42nd St., New York City, engr.

Wis., Hartford—Making plans 150,000 gal. rein-con. reservoir. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engr.

Wis., Kohler—Making plans 10,000 ft. 6-8 in. c.i. water extensions, 15 hydrants, 12 valves, etc., 7,000 ft. 8-10 in. vitr. sanitary sewers. $15,000. J. Donohue & Co., 608 North 8th St., Sheboygan, engrs.

Kan., Hamilton — Feb. 26, to vote on $46,000 bond issue for waterworks system. F. E. Devlin, Sedgwick Bldg., Wichita, engr.

Kan., Smith Center—Voted $200,000 bond issues for complete waterworks system.

Waterworks (Continued)

Mo., St. Louis—Voted $5,100,000 bonds for Missouri River plant, incl. pumping station, pumps, etc., $1,977,500 for conduits and right-of-way, $1,150,000 for reservoir, $2,740,000 for distributing mains and $1,032,500 for contingencies.

Tex., Dawson—Attorney Generals Dept., Austin, approved $45,000 bond issue for waterworks improvements. Address Mayor.

Okla., Weatherford — Voted $114,000 bonds for 500 hp. plant, deep well pumps and 20 ton raw water ice plant. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ore., Portland—City Council will sell $500,000 bonds to finance 1923 waterworks construction program. O. Laurgaard, city engr.

Colo., Rocky Ford—Preparing specifications changing water supply system from wells to river, installing settling basin, purification and filtration plant, also renewing distributing system. $350,000. P. E. Strause, city engr. W. G. Clark, 1074 Spitzer Bldg., Toledo, O., consult. engr.

Calif., Montebello — See "Excavation, Drainage, Irrigation."

Calif., Napa—Having plans prepared 9 mi. pipe line in connection with Milliken Canyon Water Project, probably 12, 14 and 16 in. diam., bids will probably be taken for various types. $52,000. A. Kempkey, Hobart Bldg., San Francisco, consult. engr.

Calif., Santa Barbara—Montecito Water Dist. plans election Feb. 27, to vote on $850,000 bonds to lay water distributing system and start construction of tunnel through mountains to tap Santa Ynez River.

Calif., San Diego—March 20, to vote on $240,000 bonds to purchase and install 94,679 lin.ft. c.i. water pipe and $85,000 bonds to purchase and construct steel stand pipe, 1,200,000 gal. capacity, near University Heights water reservoir. F. A. Rhodes, city engr.

Calif., San Francisco — City and San Francisco Co. having plans prepared extending high pressure mains in Jones St. from Beach to Jefferson Sts., and in Jefferson St. from Jones to Leavenworth Sts. $18,000. City will furnish pipe and fittings, which is not included in estimated cost. M. M. O'Shaughnessy, city engr.

Canada—See "Railways."

Ont., New Toronto—Plans 2,000 ft. 24 in. mains, probably steel with flexible joints, etc. $40,000. A. H. R. Thomas, town engr.

Ont., Toronto — Having surveys made, high pressure fire system with hydrants, etc. on Bay, Teraulay, Dundas, Chestnut, Albert and James Sts., incl. 4,000 lin.ft. c.i. pipe, 12 in. up $95,000. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Middletown—See "Miscellaneous."

Md., Baltimore—March 7, by Bd. Awards at office of City Register, City Hall, addition to Montebello Filters, Contr. 63, Water Dept. W. A. Megraw, water engr.; adv. this issue.

O., Dayton—Feb. 21, by Comrs. Montgomery Co., mains in Westwood Sanitary Sewer Dist., 28,342 lin.ft. 4 in., 27,700 lin.ft. 6 in., 2,713 lin.ft. 8 in. and 10,005 lin.ft. 10 in. c.i. pipe, 54,039 lin.ft. 0-6 ft., 14,071 lin.ft. 6-8 ft. and 650 lin.ft. 8-10 ft. trenches, two hundred and four 4-10 in. valves, etc., $260,000; mains in Lakeside Sanitary Sewer Dist., 3,526 lin.ft. 4 in., 7,247 lin.ft. 6 in., 2,302 lin.ft. 10 in. and 120 lin.ft. 12 in. c.i. pipe, 8,615 lin.ft. 0-6 ft., 3,480 lin.ft. 6-8 ft., 900 lin.ft. 8-10 ft. and 200 lin.ft. 10-12 ft. trenches, thirty-nine 4-12 in. valves, etc., $138,000. K. B. Allen, 606 U. B. Bldg., engr.

Mich., Bay City — March 5, by Water Comrs., electric and power wiring, heating, ventilating and filter equipment for waterworks plant. $150,000. Frazier, Sheal & Ellms, 2000 B. F. Keith Bldg., Cleveland, O., engrs.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co. installing 31,800 ft. 6-10 in. c.i. mains in Impvt. 16 B of County Water Dist., from Gantose Constr. Co., Columbia Bldg., $176,647; Langahan Constr. Co., Marshall Bldg., $179,719.

CONTRACTS AWARDED

N. Y., Buffalo—Commissioner Pub. Wks., Municipal Bldg., furnishing 571 ton iron pipe floor and wall castings for Buffalo Filter Plant, to Bowler Fdry. Co., 1688 Columbus Rd., Cleveland, $133 per ton. Noted Jan. 18.

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., furnishing 56 rectangular sluice gates, for Buffalo Filter Plant, to Chapman Valve Mfg. Co., Indian Orchard, Mass., $26,126. Noted Jan. 11.

N. Y., New York — Bd. Water Supply, Municipal Bldg., gate valves and hydrants for Mt. Prospect Park Slope, Ft. Hamilton and Clove conduits and Narrows Siphon 2 of Catskill Aqueduct, to Michigan Valve & Fdry. Co., Detroit, Mich. (street address not available). $224,320. Noted Feb. 8.

Sewers

PROPOSED WORK

Tenn., Dayton—Plans sewerage system. $50,000.

O., Akron—Plans Ohio Canal Intercepter from Market St. to Cuyahoga River. $62,200. J. E. Root, Delaware Bldg., engr.

Wis., Kohler—See "Waterworks."

Wis., Sheboygan—Plans sewage disposal plant, with complete equipment. G. Steimle, city clk.

Ia., Anamosa—Making plans sewage disposal plant. $25,000. L. Higgins & Sons, 420 Security Bldg., Des Moines, engrs.

Kan., Kansas City—Making surveys sanitary sewerage system to drain 3 mi. territory north of Quindaro Blvd. $300,000. R. L. McAlpine, City Hall, engr.

Neb., Humboldt—Plans sanitary sewerage system. $30,000. W. Lydick, clk. Engineer not selected.

Mo., St. Louis—Voted $11,000,000 bonds for River Des Peres sewerage improvement and $8,000,000 for sewer construction.

Calif., Colton—Had plans prepared outfall sewers, involving 5,000 lin.ft. 18 in., 1,800 lin. ft. 12 or 22 in., and 1,600 lin.ft. 24 in. pipe, etc. M. L. Cook, Garner Bldg., San Bernardino, engr. Noted Dec. 7.

Que., Montreal—Plans 3,800 ft. 2 x 3 brick sewers in Patricia St. from Oak to Somerled Sts., $22,715, 380 ft. 2 x 3 brick sewers in Boyce St. from Joffre to Monsseau Sts., $3,016.

BIDS DESIRED

N. Y., Blasdell—Feb. 26, by Bd. Village Trustees at office of F. F. Glezen, village clk., sanitary sewers and sewage disposal plant. Frederick K. Wink Co., 1314 Prudential Bldg., Buffalo, engrs.; adv. this issue.

N. J., Matawan—March 13, by W. H. Sutphin, mayor, and Boro Council, at Truck House Bldg., Jackson St., 6¼ mi. 6-12 in. sewers and Imhoff tank. George A. Johnson Co., Inc., 150 Nassau St., New York City, consult. engrs.; adv. this issue.

Pa., Phila.—Feb. 21, by F. H. Caven, dir. pub. wks., 12 ft. 6 in. concrete sewer in Ashdale St. from point 17 ft. southwest of Fisher St. to Fisher St. 171 ft. rein.-con., 1,400 ft. trenching, $25,000, 2,153 ft. Charles St. from Comly to Charles Sts., 600 ft. shale brick invert in hard rock, 4 ft. 6 in. diam., 1,050 ft. shale brick invert in reduced cradle, 4 ft. 6 in. diam., 503 ft. shale brick invert in reduced cradle, 4 ft. diam. $65,000, 101 ft. Pratt St. from point 70 ft. southwest of Loretto St. to Loretto St., 101 ft. 6 in. diam. and 80 ft. 2 x 3 brick, $10,000, 2 ft. 6 in. x 1 ft. 8 in. branch sewers in Grays Ave. from 49th to 51st Sts., Limekiln Pike from Andrews Ave. to Walnut Lane, McCallum St. from Ellet St. to Mt. Pleasant Ave. $25,000. J. E. Vogelson, City Hall, engr.

O., Akron—Feb. 19, by W. F. Peters, dir. Pub. Serv., for Willow Run Trunk Sewer, Contr. 3, 2,745 ft. 30-114 in. brick, 330 ft. 6 and 8 in. vitr. pipe, $234,000; Ohio Canal Intercepter Sewer, 4,005 ft. 12-45 in. vitr. pipe, $62,000; 2,140 ft. 12-24 in. vitr. sewer in Gary Ave., $10,000; 165 ft. 30 in. brick and 2,755 ft. 8-27 in. vitr. sewers in Tallmadge Ave., Spaulding, Evers and Weaver Sts., $20,000; 6,010 ft. 8-27 in. vitr. sewer in Case Ave., $26,000. J. E. Root, Delaware Bldg., engr.

O., Ashtabula—Feb. 21, at office of W. M. Cotton, city mgr., East Side Main Sanitary Sewer. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.; adv. this issue.

O., Cleveland—Feb. 23, sewers in Behrwald Ave. S. W. from West 45th St. to point 590 ft. westerly, Crestline Ave. S. W. and Elston Ave. S. W. from Valley Rd. S. W. to easterly end, Galion Ave. S. W. from Valley Rd. to West 16th St., Spruce Ave. N. W. from West 25th St. to Mulberry St. N. W., West 14th St. from Denison Ave. S. W. to Jennings Rd. S. W., West 16th St. from Crestline Ave. S. W. to Elston Ave. S. W., West 19th Pl. from S. L. O. L. 87 to alley at north end, West 28th St. from Washington Ave. N. W. to River Rd. N. W., West 35th St. from Cypress Ave. S. W. to Biddulph Ave. S. W. To exceed $50,000. R. Hoffman, City Hall, engr.

O., Dayton—Feb. 21, by Comrs. Montgomery Co. constructing Sub District "B" Westwood Sanitary Sewer Dist. 1, 13,129 lin.ft. 8 in. and 1,642 lin.ft. 10 in. vitr. pipe, 12,077 lin.ft. 6 in. vitr. sub drain, 10,967 lin.ft. 6-8 ft., 2,933 lin.ft. 8-10 ft., 800 lin.ft. 10-12 ft. and 71 lin.ft. 12-14 ft. trenches, 55 manholes, etc. $40,000. K. B. Allen, 606 U. B. Bldg., engr.

O., Ravenna—See "Streets and Roads."

Wis., Milwaukee—Feb. 23, by Sewerage Comn., at its offices 508 Market St., extending intercepting sewerage system. J. H. Fowles, secy.; adv. this issue.

Wis., Milwaukee—March 3, by Sewerage Comn. at its office, 508 Market St., extending intercepting sewerage system. J. H. Fowles, secy.

Ia., Clinton—Feb. 19, for 2,091 ft. 30 in., 819 ft. 27 in., 265 ft. 24 in., 872 ft. 18 in., 3,156 ft. 15 in., 3,258 ft. 12 in., 2,718 ft. 10 in. and 10,800 ft. 8 in. vitr. clay sewers in Sewer Dist. 7, between Main and Commercial Sts. $50,000. B. R. Anderson, 410 Weston Bldg., city engr. Former contract rescinded. Noted March 23.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Feb. 8, sewers in (1) Hemlock Pl. (2) Justice St. (3) 89th St. (Ocean View Ave.) (4) 92nd St. (Biglow Pl.) (5) 114th St. (Stoothoff St.) (6) 115th St. (Hamilton Ave.), from J. Gallo, 203 Division St., Brooklyn, (1) $8,712 (2) $2,851; Napolitano Constr. Co., (1) $9,486 (3) $7,916 (4) $3,704 (5) $3,704 and $2,446 (6) $3,365; Seaside Contg. Co., 193 Beach 108th St., Rockaway Beach, (1) $9,939; Spinella & Muccini, (2) $2,944 (3) $7,937 (4) $4,030 (5) $2,720 (6) $3,591; Kennedy & Smith, 93 Amity St., Flushing, (2) $3,171 (3) $8,482 (4) $4,113 (5) $2,973; H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, (6) $3,494. Noted Feb. 1.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., opened bids Feb. 6, sewers in (1) Bronx and Pelham Parkway (2) Edenwald Ave. (3) Barkley Ave. (4) Williamsbridge Rd. (5) Hobart Ave. (6) Odell St., from C. W. McDonald, 1010 Webster Ave., (1) $107,515 (2) $29,307 (3) $58,805; Anita Constr. Co., (1) $119,230 (2) $29,644 (4) $8,496 (5) $5,373 (6) $4,717; Gregorio & Gabriele, 1129 8th Ave., (2) $27,692 (6) $4,851; Knight & Demicco, 448 East Tremont Ave., (3) $48,130; J. V. Timoney Constr. Co., 220 East 201st St., (3) $54,942; McDonald Wilson Co., 1803 Gleason Ave., (4) $7,880; Spedero & Turriamo, (4) $9,594 (5) $5,292; C. E. Farrell Contg. Co., 1981 Pilgrim Ave., (5) $5,003 (6) $4,513. Noted Feb. 1.

N. Y., Spring Valley—City Clerk, opened bids Feb. 5, 15 mi. sewers and sewage disposal plant, from B. Pizzimenti, Hughesville, Md., $219,018; Amer. Utilities Contr. Co., Newark (street address not available), $235,736; Mahlon Averill, 196 Woodside Ave., Newark, $236,220. Noted Jan. 25.

CONTRACTS AWARDED

Md., Baltimore—Mayor and City Council, sanitary sewers in Dist. G-14, Contr. 196, to Arundel Constr. Co., Knickerbocker Bldg., $73,582; in Dist. 11, Contr. 197, to Shyrock & Rich, 4701 Reistertown Rd., $61,053. Noted Feb 8.

S. C., Clover — Constructing sewerage system, to W. A. Ebert, Latta Arcade, Charlotte, N. C., $53,064. Noted Jan. 18.

Calif., Crescent City—See "Streets and Roads."

Waste Disposal

PROPOSED WORK

Wis., Milwaukee—Making plans addition to garbage disposal plant, 50 ft. high, 101 ft. long, brick, concrete and steel, also includes concrete cinder hoppers and new grates, $90,000. C. E. Malig, City Hall, archt.

Wis., Sheboygan—Plans 1 story addition to garbage disposal plant, brick, rein.-con. and steel. $50,000. Engineer or architect not selected.

Que., Montreal—Had plans prepared for garbage incinerators. $1,000,000 bonds will be voted on in March. H. A. Tetreault, dir. pub. wks.

BIDS DESIRED

Wis., Sheboygan—City, c/o J. Steimle, clk., taking bids 2 story, 45 x 60 ft. incinerator, rein.-con., brick and steel, plain foundation, guaranteed capacity 15 ton in 24 hours. C. N. Boley, City Hall, city engr.

CONTRACTS AWARDED

Mo., St. Louis — Bd. Pub. Serv., City Hall, disposal of city garbage, amounting to average of 60,000 ton for year 1923-24, delivered to barges foot of Chouteau Ave., to Klein & Katz, Central Natl. Bldg., $2.10 per ton. Noted Jan. 11.

Bridges

PROPOSED WORK

Conn., Bridgeport—Dept. Pub. Wks. plans 100 ft. steel truss bridge over Ash Creek, State St. Ext., $25,000; steel truss bridge on Brewster St., $25,000. J. A. McElroy, City Hall, city engr. Noted Feb. 2.

Tennessee—State Hy. Dept., Nashville, plans rein.-con. bridge over French Broad River, near Bridgeport, Cocke Co., $75,000; rein.-con. and steel bridge over Roaring River, Federal Aid Project 90, near Gainesboro, Jackson Co. D. Q. McComb, State Hy. Dept., Nashville, ch. engr.

Minn., Austin—See "Streets and Roads."

Minn., Mankato—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, rejected bids opened Dec. 2, one 35 ft. rein.-con. deck girder and one 80 ft. steel truss spans, 20 ft. roadways, concrete abutments, on road from West Co. line to Hamilton, State Project Route 8, Sect. 12, Caldwell Co. also one 60 ft. steel and two 25 ft. rein.-con. deck girder spans, 20 ft. roadways, concrete abutments, on road from West Co. line to Hamilton, State Project Route 8, Sect. 13, Caldwell Co. Noted Dec. 28.

Mo., St. Louis—Voted $3,000,000 bonds for railway approaches to municipal bridge.

Ore., Aurora—Marion Co. (Salem) and Clackamas Co. (Oregon City) had plans prepared and take bids about April 1, 120 ft. steel bridge, concrete piers, over Pudding River, here. $37,500-$40,000. State Hy. Comn., Salem, engrs.

Canada—See "Railways."

BIDS DESIRED

N. J., Trenton—Feb. 27, by Bd. Freeholders Mercer Co., Bridge 216.6 steel I-beam encased in concrete over Woolseys branch of Jacobs Creek on road from Washingtons Crossing to Pennington. C. H. Reichert, dir. dept. bridges; adv. this issue.

West Virginia—See "Streets and Roads."

Ind., Indianapolis—March 1, by Comrs. Marion Co., bridge over Eagle Creek on Crawfordsville Pike. $44,027. L. K. Fesler, aud.

Wis., Merrill—Feb. 20, by H. R. Allen, city clk., rein.-con. bridge, three 70 ft. spans, West Main St. $30,000-$35,000. Wisconsin Hy. Comn., Madison, engrs.

Ia., Northwood—Feb. 20, by Auditor Worth Co., 14 concrete box culverts and 10 extensions, 3 I beam and 3 pony truss spans. Will exceed $25,000. F. R. Lyford, Northwood, co. engr.

Minn., Brainerd—March 21, by C. W. Mahlum, aud. Crow Wing Co., Bridge 3721 on State Rd. 8, over Mississippi River, two 60 ft. steel spans, one 140 ft. center steel span, 2 concrete piers, two concrete abutments, about 205,000 lb. steel, 45,000 lb. reinforcing, 370 cu.yd. concrete. $30,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs. Noted Nov. 23.

Ore., Portland—Feb. 26, repairing steel truss bridge, 202,000 lb. steel. $50,000. O. Laurgaard, city engr.

BIDS RECEIVED

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on (1) State Project 147, Bertie and Hertford Counties (2) State Project 671, Rowan Co. (3) State Project 991, Transylvania Co. (4) State Project 815, Burke Co. (5) State Project 363, Onslow Co. (6) State Project 107, Bertie Co., from G. T. Gwathmey, Seaboard Bank Bldg., Norfolk, Va., (1) $35,-984; Atlantic Bridge Co., Roanoke, Va., (1) $37,559 (2) $34,706 (4) $40,984 (5) $81,452 (6) $50,128; Pittsburgh-Des Moines Steel Co., Richmond, Va. (street address not available), (1) $37,699 (5) $79,698 (6) $50,-720; Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn. (2) $34,981 (3) $40,071; Concrete Steel Bridge Co., Clarksburg, W. Va., (2) $36,139 (3) $41,451; Gibson Constr. Co., Holston Bank Bldg., Knoxville, Tenn., (3) $39,920; J. L. Von Glahn, Spartanburg, S. C., (4) $39,457; Geer & Wilson, Rutherfordton, (4) $42,447; Eagle Eng. Co., New Bern, (5) $80,849.

Ia., Des Moines—Widening roadway of present bridge over Des Moines River, on 6th Ave., incl. 700 cu.yd. concrete, 40 ton steel bars, 1,745 sq.yd. roadway pavement, etc., from Alexander & Higbie, 2733 6th Ave., $27,492; F. E. Marsh & Co., 206 Masonic Temple, $30,500; Des Moines Steel Co., South 5th and Tuttle Sts., $31,-400. Noted Nov. 16.

Missouri—State Hy. Dept., Jefferson City, opened bids Feb. 2, (1) two 60 ft. and one 80 ft. steel truss spans, 20 ft. roadways, 2 rein.-con. piers and 2 rein.-con. abutments, over Grande Glaize River on Sta. 144 plus 92, on road east and west of Zebra, State Project Route 15, Sect. 63, Camden Co. (2) one 80 ft. steel truss and four 20 ft., rein.-con. slab spans, 2 rein.-con. piers, 4 rein.-con. bents, etc., over Palmer Creek, on Sta. 194 plus 31, on road east of Brunswick, State Project Route 10, Sect. 24, Charitan Co. (3) one 120 ft. and two 76 ft., steel truss and fourteen 25 ft. I-Beam spans, over River Diversion Channel, on Sta. 738 plus 00, on road south of Marble Hill, State Project Route 51, Sect. 24, Bollinger Co. (4) four 30 ft. rein.-con. deck girder spans, 20 ft. roadway, 2 rein.-con. abutments, over Cowskin Creek, on Sta. 835 plus 00, on road from Ozark to Ava, State Project Route 40, Sect. 20, Douglas Co., (5) 0.568 mi. road northwest of Lebanon, 34 ft., incl. one 30 ft. rein.-con. deck girder and one 80 ft. steel truss spans, State Project Route 15, Sect. 36, Laclede Co., from Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, (1) $43,860 (3) $57,-268 (5) $19,793; Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, (1) $43,880 (3) $59,403; Missouri Bridge & Iron Co., Fullerton Bldg., St. Louis, (1) $44,454; C. Parker, Keytesville, (2) $15,-674; Joyce & Co., Keokuk, Ia., (2) $18,201; Cook & O'Brien Constr. Co., 305 Ry. Exch., Kansas City, (2) $18,432; Vincennes Bridge Co., Vincennes, Ind., (3) $59,526; Allhands & Davis, 705-6 Frisco Bldg., Joplin, (4) $18,070; Republic Concrete Constr. Co., Republic, (4) $19,524; Summerfield Jones Co., Springfield, (street address not available) (4) $19,526; General Constr. Co., Syndicate Trust Bldg., St. Louis, (5) $19,-388; St. Louis Foundation Co., St. Louis (street address not available) (5) $19,415. Noted Jan. 25.

CONTRACTS AWARDED

Connecticut—See "Streets and Roads."

West Virginia—State Rd. Dept., Charleston, Burlington Bridge 735, Project 3010, across Patterson Creek, Mineral Co., steel substructure to McClure & Bingner Co., Johnstown, Pa., $9,396, steel superstructure to Oregonia Bridge Co., Lebanon, O., $13,-134; Heath Bridge 873, Project 3155, across Heath Creek, Cabell Co., concrete deck girder, to Huntington Concrete Co., 14th St. W., Huntington, $9,778; Hartland Bridge 805, Project 3037, across Elk River, Clay Co., steel superstructure to Roanoke Bridge Wks., Roanoke, Va., $58,300; Amigo Bridge 833, Project 3133, across Devil's Fork, Raleigh Co., concrete, to Concrete Steel Bridge Co. Clarksburg, $13,141. Noted Jan. 11 under Streets and Roads.

W. Va., Parkersburg—Baltimore & Ohio R.R., Baltimore and Ohio Bldg., Baltimore, Md., sub-structure for 600 ft. steel bridge over Little Kanawha River, to Vang Constr. Co., Cumberland, Md. Engs. est. $35,000.

S. C., Converse—State Hy. Comn., at office Spartanburg Co. Highway Comn., Spartanburg, constructing bridge over Pacolet River, here, to W. M. Orr, Hendersonville, N. C., $73,051. Noted Feb. 1.

Ga., Columbus—Muscogee Co., 2 concrete bridges one on Glad Rd., other on Cusseta Rd. to Municipal Eng. & Constr. Co., Empire Bldg., Atlanta, $29,934.

Ohio—See "Streets and Roads."

O., Cleveland—See "Industrial Works."

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, to L. Clotfelter, Hillsboro, 2 concrete bridges, Route 1, Sect. 13-B, Wabash Co. and 1 concrete Route 1, Sect. 15-B, Lawrence Co., $15,629 and $17,783 respectively. Noted Jan. 11.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, following bridges (1) concrete approach spans and substructure for 1 steel and concrete, Route 2, Sect. 52-B, De Witt Co. (2) superstructure for 1 steel and concrete, Route 2, Sect. 52-C, De Witt Co. (3) 5 concrete Route 3, Sect. 9-B, Rock Island Co. (4) concrete approach spans and substructure for steel and concrete bridge, also 1 concrete bridge, Route 12, Sect. 24-B, Clinton Co. (5) superstructure for steel and concrete bridge Route 12, Sect. 24-C, Clinton Co. (6) 2 concrete Route 16, Sect. 13-B, Shelby Co. (7) substructure for steel, Project 25, Sect. 6-B, Grundy Co. (8) superstructure for steel, Project 25, Route 6-C, Grundy Co. to Love-Richards, Hoopeston, (1) $17,072 (2) $6,966; A. A. Reschke, Geneseo, (3) $13,413; W. H. Shons, 109 Spring St., Freeport, (4) $83,297 (5) $5,928 (6) $12,645 (7) $7,274 (8) $11,-931. Noted Nov. 16.

Ia., Marshalltown—Marshall Co., 32 concrete box and 22 concrete circular culverts, 4 concrete culvert extensions, one 36 x 20 ft. deck girder and one 70 x 20 ft. steel pony truss, Primary Bridge Project 159, to Ingersoll & Stouffer, Marshalltown, $43,900. Noted Feb. 8.

Missouri—State Hy. Dept., Jefferson City, one 140 ft. steel truss and three 20 ft. rein.-con. slab spans, 20 ft. roadways, concrete piers and bents, on road from Fairfax to Tarkio, State Project Route 1, Sect. 7, Atchison Co., to W. R. Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, S. D., $29,108; one 40 ft. rein.-con. deck girder and one 50 ft. steel truss spans, 20 ft. roadways, concrete abutments, over Spring Creek, on road from St. Louis to Springfield, State Project Route 14, Sect. 66, Franklin Co., to Frazier Davis Constr. Co., Arcade Bldg., St. Louis, $14,802; one 50 ft. and one 60 ft. steel truss and one 30 ft. rein.-con. deck girder spans, 20 ft. roadways, concrete abutments, on road from Jackson to Perry Co. line, State Project Route 25, Sect. 19, Cape Girardeau Co., to Carroll, Bedwell & H. Cortell, Cape Girardeau, $14,-536; one 80 ft. steel truss and two 20 ft rein.-con. slab spans, 20 ft. roadways, concrete piers and abutments, over Dry Fork of Meramec River, on Sta. 349 plus 59, on road from Salem to Licking, State Project Route 32, Sect. 4, Dent Co., to Illinois Steel Bridge Co., Laclede Gas Bldg., St. Louis, $14,341. Noted Jan. 25.

Colo., Denver—Rein.-con. river spans for 16th St. viaduct, to C. S. Lamble, Tramway Bldg., $37,000. Noted Jan. 18.

Dams

PROPOSED WORK

Pa., Tyrone—Penna. Sabbath School Assn., R. A. Zentmyer, pres., Municipal Bldg., plans 10,000,000 gal. dam across Warriors Mark Run, 365 ft. long, 17 ft. high, masonry and earth, Franklin Twp., Huntingdon Co.

Ark., Van Buren—Plans to vote on $210,000 bond issue, constructing dam for water Dist. Impvt. on Lee Creek. W. L. Winters, 700 South 20th St., Ft. Smith, consult engr.

Calif., Sacramento—See "Industrial Works."

BIDS DESIRED

Calif., Oroville—See "Excavation, Drainage, Irrigation."

Railways

PROPOSED WORK

Oklahoma—Missouri, Kansas and Texas R.R., Ry. Exch. Bldg., St. Louis, Mo., plans large railway yard west of Tulsa, incl. large repair station shop, enlarging freight and passenger depots at Tulsa. $1,500,000. F. Ringer, ch. engr.

California—City and San Francisco Co. soon take bids constructing municipal railway from Sloat Blvd. to Farallones St. and Plymouth Ave., San Francisco. $265,000. M. M. O'Shaughnessy, city engr.

Canada—Canadian Pacific Ry., Windsor St., Montreal, Que., will undertake following program of construction during coming season: additional trackwork in yards at Upsala, Dymont, Dryden and Port Arthur in Ontario; at Rennie, St. Claude Burnside, Ameer, Murray Park, Springstein, and Fannystelle, in Manitoba; in Regina Beach, Killaley, Frys, Falcon, Dingley and Lemberg, in Saskatchewan; in Coaldale, Coutts, Magrath, Stirling, Raymond, Glenbaw, Bankhead, Eldon, Lake Louise, Red Deer, Lacombe, Pomoka, and Strathcona, in Alberta; Ruby Creek and Mara in British Columbia; building lunch room at Ignace and improving repair shops at Weston in Ontario; new stations at Darlingford and Arden, repairing shops at Reston and Minnedosa, improving refrigerators at Brandon and Winnipeg in Manitoba; new stations at Carnduff and Congress, new lunch room at Swift Current, repairing shops at Regina, Broadview and Neudorf refrigerating improvements at Sutherland, in Saskatchewan; extending engine house at Hardisty and improving shops at Calgary, in Alberta; new station at Lake Windermere, new terminal office at Victoria, in British Columbia; water supply improvements at Newdale and Birtle Stations, in Manitoba, Kirriemuir Sta., in Alberta, at Fry's, Weyburn, Sutherland, Oxbow and Wawota stations in Saskatchewan; new steel water tanks at Moosejaw and Outlook in Saskatchewan; other miscellaneous work, incl. coal plant extensions at Ft. William, automatic signals at McGregor, in Ontario; repairs and extensions to pier at Winnipeg Beach Stockyards at Broomhill, in Manitoba; stockyards at Carstairs, Nightingale and Spring Coulee in Alberta; stockyards at Broadacres, Frobisher, Revenue and Wolfe in Saskachewan; automatic signals at Pelain Sta. and through Kicking Horse Pass between Field and

Railways (Continued)

Golden, grade revisions near Golden, relining Connaught Tunnel and Loop Tunnel on Crows Nest Pass Line, completing ocean pier at Vancouver in British Columbia. Also plans to replace number of bridges with concrete and steel structures on Kettle Valley Line and on Esquimalt & Nanaimo Branch in British Columbia.

CONTRACTS AWARDED

Montana—Great Northern Ry., 4th and Jackson Sts., St. Paul, Minn., 25 mi. tracks from Java to East Nyack, to A. Guthrie & Co., Inc., 366 Jackson St., St. Paul, Minn., $500,000.

Excavation, Drainage, Irrigation

PROPOSED WORK

Tex., El Paso—Voted $50,000 bond issue for irrigation improvements in Vinton Irrigation Dist. 30 of El Paso Co. Address E. B. McClintock, co. judge.

Colo., Ordway—Numa D. D. sold $150,000 bonds for system to drain seepage water in Crawly Co. Portion of work let to Martin-Day Co., 310 Little Bldg., Lincoln, Neb. B. A. Sawyer, Ordway, engr.

Calif., Montebello — Montebello Irrigation Dist. having plans prepared irrigation system, incl. 53,000 lin.ft. 4-18 in. riveted steel pipe, 2 turbine pumping plants, capacity 100 sec.ft., 250,000 gal. steel tank, $125,000. Olmsted & Gillelen, Hollingsworth Bldg., Los Angeles, engrs.

Calif., Venice—Feb. 20, to vote on $350,000 bonds for harbor development improvements.

BIDS DESIRED

Ill., Beardstown — Feb. 22, by Comrs. South Beardstown Drainage and Levee Dist., First State Bank, raising and widening levees from Station 0-18, Station 18-67 and Station 67-329, etc. L. B. Kinney, Pekin, engr.; adv. this issue.

Wis., Manawa—March 3, by C. W. Ross, secy. Waupaca Co. Drainage Bd., Main 1 of Waupaca Co. Farm Drainage 2, 4.2 mi. open ditch, 4 ft. bottom, 1-1 side slopes, average depth 6 ft. 6 in., maximum 9 ft., involving 58,000 cu.yd. excav. L. M. Schindler, 721 Clark St., Appleton, engr.

Wis., Watertown—Feb. 27, by Jefferson Co. Farm Drainage Bd., 4,335 ft. 6-8 in. and 11,415 ft. 12-18 in. tile drain, 26,000 cu.yd. excav. for shallow outlet ditch. $25,000. J. W. Puerner, secy. Private plans.

Minn., Redwood Falls—March 1, by Redwood and Brown Counties, Judicial Ditch 24, Sect. 1, 17,490 cu.yd. excav., Sect. 2, 36,709 lin.ft. 6-30 in. drain tile, 8 bulkheads, 64 inlets, 57 c.i. grates. $55,326. F. B. Forbes, Redwood Falls, engr. Noted Nov. 23.

Minn., Redwood Falls—March 2 (change of date), by Redwood Co., Co. Ditch 52, 182,570 lin.ft. 6-36 in. tile. $133,000. B. J. Reynolds, Redwood Falls, engr. Noted Jan. 25.

Mo., Whitham — Feb. 27, by Whitham D. D., cleaning 12 mi. drainage ditch, about 50,000 cu.yd. excav., also 2½ mi. levee, about 130,000 cu.yd. excav. S. P. Sorensen, Brunswick, engr.

Calif., Fall River Mills — Fall River Irrigation Dist., plans 15 or 20 mi. canals. S. McArthur, Mills Bldg., San Francisco, trustee. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, consult. engr.

Calif., Oroville — Feb. 23, by Trustees Oroville-Wyandotte Irrigation Dist., storage and ditch work, involving 20,100 cu.yd. earth excav., 14,500 cu.yd. sort or loose rock excav., 11,500 cu.yd. solid rock excav., 48,300 cu.yd. embankment, 1,500 cu.yd. rip rap, 132 cu.yd. concrete, 1,100 ft. earth-filled dam, 42 ft. high. S. J. Norris, Oroville, engr.

BIDS RECEIVED

Md., Baltimore — Bd. Awards, dredging and making fill for McComas St. bulkhead, from Arundel Corp., Pier 2, Pratt St., Item (1) $.199, (2) $.199, (3) $.275. Noted Jan. 11.

CONTRACTS AWARDED

Colo., Ordway—See "Proposed Work."

Streets and Roads

PROPOSED WORK

Conn., Bridgeport—Plans concrete paving about 2 mi. Stratford Ave., $31,500; grading various streets and sidewalk during coming season, $50,000. J. A. McElroy, City Hall, city engr.

Conn., Bridgeport—Plans asphalt pavements on Jones Ave. and Oak St., also on North Ave. from Dewey St. to city line. $28,500. J. A. McElroy, City Hall, city engr.

New York—H. S. Sisson, comr. State Hy. Dept., Albany, received no bids Feb. 7, reconstructing 1.5 mi. Repair Contr. 3047, Highway 541, Mayfield-Northville, Part 2, Fulton Co., $48,284; 3.88 mi. Repair Contr. 3048, Highway 5166, Saugerties-Catskill, Part 2, Greene Co., $140,355. Noted Jan. 18.

N. Y., East Aurora—Plans widening Main St. from Whaley Ave. to Pine St. $30,000. G. C. Diehl, Ellicott Sq., Buffalo, engr.

N. J., Mt. Holly—Burlington Co. plans improving Jacksonville Rd. from Burlington to Masonic Home. $50,000. H. B. Smith, Mt. Holly, engr.

Pa., Scranton—Plans paving North 9th St. and River Ave., $25,000, also Meridian Ave. and Division St., $30,577, sheet asphalt on concrete. W. La Fontaine, dir. pub. wks.

Pa., Stormboro—Village Clerk takes bids in March improving 1,925 ft. Lake and Walnut Sts., 5,900 sq.yd. concrete, 3,800 lin.ft. concrete curb, 800 ft. 24 in. and 400 ft. 18 in. pipe. $25,000. T. F. Pattinson, town engr.

Md., Baltimore — Paving Comn. soon takes bids paving with sheet asphalt, Overland Ave. from Lauretta to Forest View Aves., New Pittsburgh Ave. from 5th Ave. to new city line, Clarendon Ave. from Kathland Ave. to New Blvd., Elmora and Ravenwood Aves. from Greenview to St. Cloud Aves., South Ave. from Hill Top Rd. to Green Spring Ave.; paving with granite blocks, York St. from Sharp to Charles Sts. R. K. Compton, chn.

North Carolina—State Hy. Dept., Raleigh, received no bids Feb. 1, grading and concrete or asphaltic paving 13.8 mi. State Project 275, Sampson Co. $195,583. Will readvertise. C. M. Upham, state highway engr. Noted Jan. 11.

N. C., Asheville—Buncombe Co. plans improving highway system. $200,000. E. M. Lydia, chn. Bd. Co. Comrs.

N. C., Greensboro—City soon lets contract paving various streets. $300,000. P. C. Painter, city mgr.

Kentucky—State Hy. Dept., Frankfort, having plans prepared grading and surfacing 4.3 mi. Albany-Monticello Rd., State Project 27, Sect. A, Clinton Co. J. S. Boggs, state highway engr.

Ky., Elizabethtown—Hardin Co. Fiscal Court plans improving Dixie Highway between here and Hart Co. line, $50,000; Bardstown Rd. to Nelson Co. line, $30,000; Leitchfield Rd. to Grayson Co. line, $30,000.

O., Dayton — Plans paving and setting concrete curb and gutter on 1,500 ft. Irwin St. from 3rd to Springfield Sts., 30 ft., 5,000 sq.yd. vitr. brick, $24,970; 800 ft. Red Haw Ave., 30 ft., 2,800 sq.yd. sheet asphalt or rein.-con., $14,970; 2,500 ft. Wilmington Ave. from Wayne to Irving Sts., 30 ft., 8,500 sq.yd. vitr. brick on concrete, $45,481. I. E. Houk, city engr.

Indiana—State Ry. Dept., Indianapolis, plans paving 30,000 ft. Dixie Bee Line, 16 ft., Vanderburg Co., 53,334 sq yd. concrete on concrete. C. Gray, state highway engr.

Ind., Fort Wayne—Allen Co. received no bids Feb. 5, grading and graveling 16,450 ft. Reynolds Rd., and 16,300 ft. Adams Rd., 16 ft., $27,000 and $28,200 respectively. Will readvertise. O. M. Darling, Ft. Wayne, engr.

Mich., Detroit—Plans resurfacing with 3½ in. sheet asphalt Frederick St. from Russell to Dequindre Sts. and from Chene to Mt. Elliott Sts.; Hilliger St. from Edlie to Jefferson Sts. and from Kercheval St. to Old City Line, Hancock St. from LaSalle to Scotten Sts. and from Russell to St. Aubin Sts., Leland St. from Dequindre to St. Aubin Sts., from McDougall to Elmwood Sts., and from Moran to Gratiot Sts., Military St. from Dix to Toledo Sts., from Federal to Ranspach Sts. and from Buchanan to Ironside Sts., Maxwell St. from Gratiot to Medbury Sts. and from Medbury to Kellogg Sts., Pulford St. from Gratiot to Mt. Elliott Sts. and from Beaufait St. to Belt Line R.R., Seminole St. from Waterloo to Charlevoix Sts. and from Maqk to Canfield Sts., Springwells St. from Fort St. to railroad tracks, and from Chamberlain to Ferndale Sts., Waterloo St. from Mt. Elliott St. to Belt Line R.R., from McClellan to Hart Aves., and from Connors St. to railroad tracks, Watson St. from Russell to Riopelle Sts. and from Grand Trunk R.R. to Chene St., also resurfacing Dix, Dickerson, Drexel, Driggs, Engle, Ellery, Elm, Euclid, Fort, Forest, Forman, Fischer, Garfield, Gibson, Goethe, Glynn, Glover, Garland, Goodwin, Hubbard, Harding, Hobart, Hudson, Harbaugh, Hurlburt, Helen, Hooker, Holcomb, Hogarth, Horatio, Iroquois, Illinois, Isabella, Junction, John R., Kales, King, Larned, LeMay, Leigh, Livingstone, Lawrence, Lovett, Leicester, Lyman, Lillibridge, Lawndale, Mohawk, Meadowbrook, Mechanic, Meldrum, Maryland, Montclair, Marsden, May, Mt Vernon, McClellan, McKinley, McKinstry, Northwestern, Nall, Navarre, Osborn, Philadelphia, Pacific, Perry, Poplar, Parker, Peterson, Philip, Putnam, Porter, Roby, Railroad, Rohns, Roosevelt, Seyburn, Stanton Superior, Sherman, Seneca, St. Clair, Stanley, Seward, Scott, Tireman, Toledo, Tillman, Trumbull, Theodore, Trombley, Townsend, Visger, Williams, Woodbridge, Watson, Willis, Waterman, Warsaw, Woodmere, Ward, Wellington and Zender Sts. J. W. Reid, city engr.

Mich., Mt. Clemens—Plans paving 2,500 sq.yd. Jones St., 9,000 sq.yd. South Wilson Blvd., and 6,000 sq.yd. Church St., concrete, concrete asphalt, creosote block, asphalt block, brick or bituminous, $50,000. A. A. Devantier, city clk.

Ill., Springfield—Had plans prepared 18,200 sq. yd. brick pavement on 6 in. concrete, 40 ft., concrete curbs and gutters. W. Seeley, city engr.

Wisconsin—State Hy. Comm., Madison, has selected the following Federal Aid road construction jobs.

Div. 1, 1.9 mi. Waterloo-Hubbleton Rd., and 2.9 mi. Columbus-Beaver Dam Rd., both 18 ft. concrete, Dodge Co., 2.6 mi. Hubbleton Cutoff, 18 ft. concrete, Jefferson Co., 4.3 mi. Clinton-Darien Rd., 18 ft. concrete, Rock Co., A. L. Hambrecht, Madison, div. engr.

Div. 2, 2.75 mi. Lakeshore Rd., 18 ft. concrete, Ozaukee Co., 7.5 mi. Kilbourn Rd., 18 ft. concrete, Racine Co., 2.5 mi. Kilbourn Rd. from State Trunk Highway 57, north, Kilbourn Rd. from Racine Co. line south, both 18 ft. concrete, Kenosha Co., widening 4 mi. Blue Mounds Rd., Milwaukee Co., 4.5 mi. State Trunk Highway 61, Elkhorn-East Troy Rd., 18 ft. concrete, Walworth Co., 5 mi. Brown Deer Rd., 18 ft. concrete, Milwaukee Co., C. R. Weymouth, Milwaukee, div. engr.

Div. 3, 2.2 mi. De Pere-Greenleaf Rd., 2.1 mi. Askeaton-Greenleaf Rd., both 18 ft. concrete, Brown Co., 13 mi. Mountain-Lakewood Rd., gravel surfacing, Oconto Co., 4 mi. Amberg-Beacher Lake Rd., gravel, Marinette Co., O. C. Rollman, Green Bay, div. engr.

Div. 4, Friendship-Kilbourn Rd., clay and gravel surfacing, Adams Co., 20 mi. Kilbourn-Mauston Rd. and 7 mi. New Lisbon-Sparta Rd., both gravel, Juneau Co., 5 mi. Stevens Point-Wausau Rd., 18 ft. concrete, Portage Co., 2 mi. Coloma-Wautoma Rd., gravel, Waushara Co., 4.8 mi. Sherry-Auburndale Rd., 18 ft. concrete, Wood Co., A. F. Mengel, Wisconsin Rapids, div. engr.

Div. 5, 1.1 mi. Winona-Bluff Siding, gravel, Buffalo Co., 4.2 mi. Bluff-Siding-Marshland Rd., concrete and gravel, Buffalo and Trempealeau Counties, 6.3 mi. Hustler-Sparta Rd., 11.1 mi. Mauston-Sparta Rd., 4.6 mi. Mauston-Sparta Rd., and 4.5 mi. Hustler-Sparta Rd., all gravel, and 2.8 mi. La Crosse-Sparta Rd., 18 ft. concrete, foregoing in Monroe Co. T. M. Reynolds, La Crosse, div. engr.

Div. 6, 1.1 mi. Wilson-Knapp Rd., gravel, St. Croix Co., 3.8 mi. Wilson Knapp Rd., gravel, Dunn Co., 2 mi. Baldwin-Knapp Rd., gravel, St. Croix Co., 3.1 mi. Chelsea-Westboro Rd., gravel, Taylor Co., 1.7 mi. Red Wing-Hager City Rd., Pierce Co., 0.8 mi. Chelsea-Westboro Rd., Taylor Co., H. W. Vroman, Eau Claire, div. engr.

Div. 7, 9 mi. Koepenick-Pelican Lake Rd., and 5.7 mi. Aniwa-Antigo Rd., both gravel, Langlade Co., 7.2 mi. Woodruff-Eagler River Rd., gravel, Vilas Co., 12 mi. gravel road, Lincoln and Oneida Counties. F. M. Sergeant, Rhinelander, div. engr.

Div. 8, Odanah Rd. and bridge, Ashland Co., 5.8 mi. road from Canton to east county line, gravel, 4.3 mi. road from Chetek to join Project 186, gravel, Barron Co., 21.1 mi. State Trunk Highway 19 and 10 mi. State Trunk Highway 24, both gravel, Bayfield Co., 7 mi. Ladysmith-Tony Rd., gravel, Rusk Co., 7.2 mi. State Trunk Highway 11, gravel, Sawyer Co., 3.75 mi. State Trunk Highway 124, gravel, Washburn Co., J. R. McLean, Superior, div. engr.

Div. 9, 12 mi. Fennimore-Montford Rd., mine tailings, Grant Co., 5.5 mi. road from Foley School to county line, crushed stone, Lafayette Co., T. W. Rielly, Lancaster, div. engr.

Wis., Watertown—Soon takes bids paving West Milwaukee, Milwaukee, North 6th and North 4th Sts. and Milford Ave., various types. $80,000. A. Kraeft, City Hall, engr.

Ia., Clinton—Plans 130,000 sy. yd. pavement, various types, and 90,000 lin. ft. curb and gutter. $450,000. B. R. Anderso, 410 Weston Bldg., city engr.

Minn., Austin—Comrs. Mower Co. levied $120,000 for road and bridge construction during 1923. A. C. White, Austin, engr.

Minn., Glencoe—Comrs. McLeod Co. levied $75,000 for road and bridge construction in 1923. I. C. Christlieb, Hutchinson, engr.

Minn., Mankato—Comrs. Blue Earth Co. levied $130,000 for road and bridge construction during 1923. J. W. Hruska, Mankato, engr.

Streets and Roads (Continued)

Minn., Winona—Winona Co. levied $80,000 for road and bridge construction in 1923. E. P. Effertz, Winona, engr.

Kan., Emporia—Plans paving 35 blocks, various types. R. J. Paulette, Emporia, engr.

Kan., Holton — Jackson Co. had plans prepared and soon takes bids constructing earth road on 8.797 mi. Federal Aid Project 149, Sects. A and B, 29½ ft.

Kan., Seneca — Nemaha Co. had plans prepared and soon takes bids constructing earth road 6.226 mi. Federal Air Project 152, Sect. A, 27½ ft. E. C. L. Brown, 609 Kemper Bldg., Kansas City, Mo., engr.

Neb., Lincoln—City soon takes bids paving various streets, asphaltic concrete. $25,000. G. W. Bates, city engr.

Neb., Lincoln—Plans paving 13th St., various types. $40,000. G. W. Bates, city engr.

South Dakota—State Hy. Dept., Pierre, takes bids about March, grading and gravel surfacing 14.5 mi. Federal Aid Project 135, Minnehaha Co., incl. 101,500 cu.yd. excav., 26,100 cu.yd. gravel, 435 cu.yd. Class A concrete, 42,000 lb. reinforcing steel, etc. $90,310. F. D. Hudgins, ch. engr.

S. D., Pierre—Having plans prepared paving Pierre St., incl. 15,650 sq.yd. concrete or vibrolithic concrete, 13,100 sq.yd. bitulithic, sheet asphalt or asphaltic concrete, 75 sq.yd. concrete pavement in alley approach, 3,150 lin.ft. concrete curb; Dakota Ave., incl. 10,200 sq.yd. concrete or vibrolithic concrete, 7,800 sq.yd. bitulithic, sheet asphalt or asphaltic concrete, 225 sq.yd. concrete in alley approach, 3,000 lin.ft. concrete curb. T. H. Johnson, 319 Iowa Bldg., Sioux City, Ia., engr.

Mo., Chillicothe—Plans paving 11 blocks, in early spring. $45,000. J. Broaddus, Chillicothe, engr.

Mo., St. Louis—Voted $1,000,000 bonds for power and service building, incl. machine shop, garage, and laundry for municipal requirements.

Mo., Springfield—G. W. Culler, city engr., takes bids in early spring graveling 1½ mi. road, 30 ft. wide, also paving South Side Dist., 11,000 sq.yd. vertical fibre brick.

Tex., Cameron—Milam Co. making plans grading and gravel surfacing 10.5 mi. Ben Milam Highway from Little River to Ash Hill, 16 ft. $130,000. A. F. Mitchell, co. engr.

Tex., Columbus — Colorado Co. having plans prepared grading and gravel surfacing 4 mi. State Highway 3, between Weimar and Shatto, 16 ft., $40,000. B. H. Faber, co. engr.

Tex., Eldorado — Schleicher Co. making plans grading, gravel surfacing and asphalt topping 9.86 mi. State Highway 4, 16 ft., 903 cu.yd. concrete, 42,621 cu.yd. roadway and 16,151 cu.yd. borrow excav., 74,349 gal. bituminous macadam, 15,385 cu.yd. gravel and 15,385 cu.yd. crushed rock, 74,045 lb. reinforcing. $133,935. J. L. Niell, co. engr.

Tex., Groesbeck—Limestone Co. making plans grading and paving, etc., with rein.-con. 4 mi. Bates Sect., State Highway 14, east from Mexia, 16 ft. $100,000. J. G. McIntosch, co. engr.

Tex., McKinney—Collins Co. having plans prepared surfacing 2.17 mi. State Highway 1, 18 ft., 22,590 sq.yd. rein.-con. $65,000. F. W. Cawthon, co. engr.

Tex., Palo Pinto—Palo Pinto Co. making plans surfacing with 1 in. bituminous topping 10.87 mi. State Highway 1 from Strawn to Meetcalfe Gap, 18 ft., 114,738 sq. yd. bituminous macadam, $95,000; 4 mi. Bankhead Highway from Mineral Wells to Parker Co. line, 18 ft., 42,180 sq. yd. bituminous macadam. $35,000. G. W. Courter, co. engr.

Nev., Reno — Making plans 700,000 sq. ft. 5 in. asphaltic concrete pavement. H. Chism, city engr.

Calif., Auburn—Had plans prepared improving East Placer St. between Pine and High Sts., 20,000 sq. ft. 5 in. concrete pavement, 20,000 sq. ft. grading, 2,000 lin. ft. concrete curb and gutter; Finley St. between Orange and High Sts., 8,400 sq. ft. grading, paving with 5 in. hydraulic concrete, 1,800 lin. ft. curb and gutter; Almond St. between Lincoln and East Placer Sts., 14,000 sq. ft. grading, paving with 5 in. hydraulic concrete, 1,400 lin. ft. curb and gutter; Pine St. between Lincoln and East Placer Sts., 14,000 sq. ft. grading, paving with 5 in. concrete, 1,400 lin.ft. curb and gutter; portion High St., 10,500 sq. ft. grading and paving with 5 in. hydraulic concrete, 840 lin.ft. curb and gutter; High St. between East Placer and El Dorado Sts., 50,000 sq. ft. grading paving with 5 in. hydraulic concrete, 1,500 lin. ft. curb and gutter; Agard St. between Orange and High Sts., 12,200 sq. ft. grading, paving with 5 in. hydraulic concrete, 1,000 lin. ft. curb and gutter; El Dorado St. between High St. and Southern Pacific R. R., 3,000 sq. ft. grading, paving with 5 in. hydraulic concrete. J. Barieau, city engr.

Calif., San Francisco — Had plans prepared improving Gilman Ave. between 3rd and Griffith Sts., 4,822 cu.yd. excav., 328 cu.yd. fill, 2,548 lin.ft. concrete curb, 1,320 sq.ft. artificial stone walks, 67,826 sq.ft. asphaltic concrete, etc., $29,635; Santa Rosa Ave., etc., in Mission Terrace, 816 cu.yd. excav., 615 cu.yd. fill, 1,199 lin.ft. concrete curb, 792 sq.ft. artificial stone walks, 15,940 sq.ft. asphaltic concrete, 8,750 sq.ft. concrete pavement, etc., $10,900; Gilman Ave. between Ingalls and Griffith Sts., 2,973 cu.yd. excav., 1,446 cu.yd. fill, 2,588 lin.ft. concrete curb, $6,000; 24th Ave. between Judah and Kirkham Sts., 1,200 lin. ft. concrete curb, 24,000 sq.ft. asphaltic concrete pavement, $8,400; Thomas Ave. between Ingalls and Jennings Sts., 4,990 cu.yd. fill, $5,000. M. M. O'Shaughnessy, city engr.

Calif., San Jose—Supervs. Santa Clara Co. received no bids Feb. 5, improving Campbell Ave. I. Ryder, co. surv. Noted Jan. 18.

Calif., Santa Barbara—Santa Barbara Co. having plans prepared grading and paving San Marcos Rd. $25,000. O. H. O'Neill, co. surv.

Calif., Sausalito—Plans paving Princess St., etc., probably concrete. To exceed $150,000.

Calif., Stockton—Had plans prepared improving East St. between Main and Scott Sts., 3,970 cu.yd. excav., 2,373 lin.ft. combined curb and gutter, 4,474 sq.ft. concrete walks, 71,123 sq.ft. 3 in. asphaltic base with 1½ in. asphalt surface laid on 2½ in. gravel. W. B. Hogan, city engr.

Que., Montreal — Takes bids early in spring asphalt pavements on 1,524 ft. Rozel St. from Hibernia to Charlevoix Sts., 33 ft., $14,625, 809 ft. Soulanges St. from Contre to Grand Trunk Sts., 33 ft., $7,871, 3,850 ft. St. Charles St. from Laprairie to D'Argenson Sts., 30 ft., $36,720, 750 ft. Berri St. from Champ de Mars to Craig Sts., 45 ft., $15,270, 375 ft. Trudel St. from St. Martin to Richmond Sts., 25 ft., $4,052, 2,250 ft. Notre Dame St. from Fulford to Atwater Aves., 45 ft., $37,367, 2,250 ft. Notre Dame St. from Atwater Ave. to St. Henri Sq., 50 ft., $44,173, 2,070 ft. D'Argenson St. from St. Patrick to Butler Sts., 35 ft., $29,841, 1,744 ft. Davidson St. from Ontario to Rouen Sts., 35 ft., $19,220, 720 ft. Tracey St. from Charlevois to Levis Sts., 20 ft., $5,053, 1,010 ft. Centre St. from D'Argenson St. to Atwater Ave., 45 ft., $15,330, 1,758 ft. Chambord St. from Grand Blvd. to Prieur St., 30 ft., $11,457, 3,269 ft. St. James St. from Guy to Fulford Sts., 50 ft., $43,378, 12,300 ft. St. Denis St. from Guizot St. to Cremazie Blvd., 56 ft., $220,395, 3,750 ft. Notre Dame St. from St. Henri Pl. to Cote St. Paul Rd., 40 ft., $73,617, 5,000 ft. Butler St. from D'Argenson St. to Dyke, 30-36 ft., $73,028; waterbound macadam on 1,390 ft. St. Clothilde St. from St. Remi St. to western city limits, 22-36 ft., $5,670; block and asphalt on 1,513 ft. Osborne St. from Windsor to Mountain Sts., 37 ft., $26,570. H. A. Terreault, ch. engr. Dept. Pub. Wks.

Ont., Atwood—Elma Twp. (Atwood) and Wallace Twp., (Gowanstown) plan 1½ mi. concrete pavement, probably 20 or 24 ft. wide. $75,000. G. Lockhead, clk. of former; D. Greer, clk. of latter.

Ont., Ottawa — Ottawa Suburban Rd. Comn., 26 Wellington St., takes bids early in year for asphalt surface on macadam roads as follows: 2 mi. Metcalfe Rd., 1½ mi. Bowesville Rd., ¾ mi. Merivale Rd., also improving road at Billings Bridge. $240,000. A. K. Hay, 26 Wellington St., engr.

BIDS DESIRED

N. Y., New York—Feb. 19, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, laying sidewalks, etc., on Bogart, Buhre, Crosby, Gleason, Jervis, Hobart, Middletown, Gainsborg and Yates Aves.; curbing and laying sidewalks on Fieldston Rd.

Pa., Phila.—Feb. 20, by F. H. Caven, dir. pub. wks., paving, curbing and sidewalks on Delaware Ave. from Snyder to Bigler Sts., $35,000, granite block pavement on Sansom St. from 23rd to 24th Sts. and 15th St. from Spring Garden to Girard Sts., 13,082 sq.yd. granite block, 1,665 cu.yd. concrete base, $135,000, asphalt pavements on Mulberry St. from Harrison to Wakeling Sts., Oxford St. from Columbia Ave. to 54th St., Robinson St. from Haddington to Jefferson Sts., 3,989 sq.yd. asphalt, 540 sq.yd. concrete base, $35,000, Howard St. from Clearfield to Lippincott Sts., 1,760 sq.yd. asphalt, 320 sq.yd. vitr. brick, 500 cu.yd. concrete base, $27,000, Broad St. from 70th Ave. to Fracker St., 6,130 sq.yd. asphalt, 340 sq.yd. vitr. brick, 1,078 cu.yd. concrete base, $30,000; Almond St. from Buckins to Ash Sts., Barbara St. from Moyamensing Ave. to 18th St., Bermuda St. from Orthodox to Duncan Sts., 3,415 sq.yd. asphalt, 600 sq.yd. vitr. brick, 653 cu.yd. concrete base, $25,000. F. C. Dunlap, City Hall, engr.

D. C., Washington—March 1 by Dist. Comrs., 509 Dist. Bldg., 140,000 sq. yd. concrete paving. For detailed information apply to Room 427 Dist. Bldg., adv. this issue.

West Virginia—March 6, by State Rd. Comn., Charleston, grading Project 3151 B, Boone Co., Project 3180, Nicholas Co., Project 3170 B, Clay Co., Project 121, Mercer Co., Project 3199 Webster Co., Project 126, Preston Co., Project 3146 Grant Co.; grading and paving Project 3039, Fayette Co., Project 3041, Greenbrier Co., Project 3201, Lincoln Co., Project 3068, Ritchie Co., Project 3241, Ohio Co., Project 3227, Wood Co., Project 3084 B, Wood Co., Projects 3038 and 3009 A, Wirt Co., Project 3240 Roane Co., Project 125, Taylor Co., Project 3159, Lewis Co., Project 3011 B, Hampshire Co., Project 3010, Mineral Co., Project 125, Taylor Co., cleaning and tar cold surface application on Projects 2039, 2040, 2041, 2042, 2043, 2044, and 3060, Mercier Co., Project 87, Mason Co.; grading and gravel surfacing Project 3132 A, Jackson Co., Project 3081, Wetzel Co., Projects 58 A and B, 3092, 3080, 103 A and B, Tyler and Pleasants Counties; constructing bridges on Project 116, Kanawha Co., Project 2100, Gilmer Co., Project 3149, Grant Co. E. B. Carskadon, secy.; adv. this issue.

O., Ravenna—Feb. 26, by A. S. Helbig, dir. Pub. Serv., grading, laying sewers and 11,000 sq.yd. rein.-con., brick or asphalt paving.

Ill., Chicago—Feb. 20, paving Hopkins St. from Hamilton to Pleasant St., $14,500; Randolph St. from Sangamon to Ogden Sts., $419,000; Berwyn St. $13,100; Fairfield St. from Arthington to Taylor Sts., $5,700; 21st St. from Western to Rockwell Sts., $19,600; Manistee St. from 92nd to 94th Sts., $23,000; Long St. from Grace St. to Irving Park Blvd., $30,500; Foster St. $13,000; Ravenswood St. from Pratt to Estes St., $40,000; Marmora St. from Lawrence to Montrose Sts., $64,000; Farwell St. from Ridge to Pingree Sts., $31,000; Clarendon St. from Lakeside to Lawrence Sts., $27,500. C. D. Hill, city engr. Noted Jan. 11.

Ind., Goshen—Feb. 26, by Comrs. Elkhart and Kosciusko Counties, (Goshen), paving 15,840 ft. road in Benton and Turkey Creek Twps., 19,596 sq.yd. concrete on concrete. $74,460. C. L. Kinney, Goshen, engr.

Ind., Indianapolis—March 1, by Comrs. Marion Co., constructing and improving Crawfordsville Pike. $191,059. L. K. Fesler, aud.

Wis., Green Bay—Feb. 27, by Brown Co. State Road and Bridge Com., grading and surfacing 10.23 mi. Blake Rd., towns of De Pere, Rockland and Wrightstown, 40,771 cu.yd. unclassified excav., 97,195 sq. yd. 16 ft. concrete surfacing, 159,198 lb. reinforcing, etc. G. J. Corimer, co. highway comr.

Wis., Jefferson—Feb. 23, by Jefferson Co. State Road and Bridge Com., grading and surfacing 1.3 mi. Madison St., State Trunk Highway 107, Lake Mills, incl. 0.51 acres clearing and grubbing, 6,047 cu.yd. earth excav., 16,341 sq.yd. concrete surfacing, etc.; Milwaukee and Watertown Sts., Johnson Creek, 2,144 cu.yd. unclassified excav., 7,803 cu.yd. concrete surfacing, etc., 1.11 mi. Portland-Waterlo Rd., comprising 3 sections, beginning at Dodge Co. line and extending southwesterly on State Trunk Highway 19 to Dane Co. line, Sect. A, Dodge Co. line to Madison St., 3,723 cu.yd. earth excav., 11,882 sq.yd. 18 ft. concrete pavement, etc., Sect. C, Stone Arch bridge, southwesterly to Dane Co., 0.89 mi. 7,136 cu.yd. earth excav., 9,369 sq.yd. 18 ft. concrete pavement, etc.; 3.68 mi. Oconomowoc-Watertown Rd., from Waukesha Co. line to concrete pavement west of Ixonia, 18,476 cu.yd. earth excav., 1,133 cu.yd. borrow, 39,834 sq.yd. 18 ft. concrete surfacing, etc.; 3.7 mi. Helenville-Sullivan Rd., Sullivan, 6,500 cu.yd. earth excav., 39,000 sq.yd. 18 ft. concrete pavement, etc.; R. D. Royce, co. comr. Bids will be received on following by Village of Waterloo at Courthouse, Jefferson, grading and surfacing Sect. B, Portland-Waterloo Rd., Junction Trunk Highways 19 and 107 west to Stone Arch Bridge, 3,410 cu.yd. unclassified excav., 13,110 sq.yd. concrete pavement, etc. E. H. Hazel, village clk.

Wis., Kenosha—Feb. 24, by Kenosha Co. State Road and Bridge Com., Court House, grading and surfacing 1.75 mi. Antioch-Salem Rd. beginning at Illinois State line and extending northwesterly along State Trunk Highway 116, 9,962 cu.yd. earth excav., 18,598 sq.yd. 18 ft. concrete surfacing, etc.; Geneva Rd. beginning at west town line of Pleasant Prairie and extend-

Streets and Roads (Continued)

ing east 2 mi. or as far as funds available ($30,000) will construct, 10,500 sq.yd. paving, 10,500 sq.yd. earth excav., etc., J. F. Herzog, co. highway comr.

Wis., Mayville—March 14, by A. Lentz, clk., paving 17,155 sq.yd. Horicon, School, Allen and William Sts., 25 ft., rein.-con., asphalt or bitulithic. $35,000. J. Donohue Co., 608 North 8th St., Sheboygan, engrs.

Wis., New London—Feb. 20, by C. J. Thompson, city clk., paving Cemetery Rd. from Wyman to Jennings St. and from Jennings St. to city limits, 10,000 sq.yd. rein.-con. pavement. $30,000. H. R. Albert, c/o Court House, Green Bay, engr.

Wis., Port Washington — Feb. 21, by Ozaukee Co. State Road and Bridge Com., Court House, grading and surfacing Cedarburg-Grafton-Saukville Rd., State Trunk Highway 57, beginning 1 mi. east from limits of Cedarburg and extending northerly 5.2 mi. to paving east at Saukville, 17,722 cu.yd. earth excav., 1,455 cu.yd. borrow, 54,600 sq.yd. 18 ft. concrete surfacing, etc. W. C. Bartlet, co. highway engr.

Wis., Racine—Feb. 20, by Racine Co. State Road and Bridge Com., grading and paving River Rd., 19,652 cu.yd. earth excav., 43,160 sq.yd. concrete surfacing, etc. W. A. Bechthold, co. highway comr.

Wis., Waukesha—Feb. 28, by Waukesha Co. State Road and Bridge Com., grading and surfacing Templeton-Menomonee Falls Rd., extending from Soo Line R.R. in Templeton east along State Trunk Highway 74 to Fond du Lac Ave. in village of Menomonee Falls, village quantities include 1,004 cu.yd. earth excav., 3,280 lin.ft. concrete curb and gutter, 1,710 sq.yd. concrete surfacing, etc., county and state aid quantities include 24,399 cu.yd. earth excav., 2,489 cu.yd. borrow, 66,080 sq.yd. 18 ft. concrete surfacing, etc. C. J. Hahn, co. highway comr.

Wis., Wisconsin Rapids—Feb. 21, by F. G. Gilkey, city clk., paving various streets, 22,400 sq.yd. concrete, 13,880 lin.ft. combined concrete curb and gutter. $50,000 to $60,000. E. H. Aldrich, City Hall, engr.

Ia., Gowrie—Feb. 26, by T. E. Johnson, clk., 20,000 cu.yd. gravel surfacing, 8,000 lin.ft. curb and gutter. $30,000. Bruce & Grupe, 408 Finance Bldg., Omaha, Neb., engrs.

Ia., Northwood — Feb. 20 by Auditor Worth Co., grading 9.5 mi. Primary Rd. Project 216, through Fertile west and Northwood west, 113,112 cu.yd. excav., 1,100 lin.ft. 6 in. and 2,565 ft. 12 in. tile. $28,000. F. R. Lyford, Northwood, co. engr. Noted May 11.

Minn., Fergus Falls—Feb. 27, by city, improving 20,009 sq.yd. various streets, bids on asphaltic concrete, wood block, vitr. brick, rein.-con., vibrolithic concrete and bitulithic, 2,093 lin.ft. reset curb, 1,315 lin. ft. straight and 375 lin. ft. curved curb, 735 lin.ft. 8 in. vitr. tile, 34 inlets and 10 catchbasins. $90,000. S. J. Sieverts, Jr., 1001 Plymouth Bldg., Minneapolis, engr. Noted May 18.

Minn., Hibbing—Feb. 20, by city, paving 40 blocks, various types, also concrete curb and gutter. $170,000. E. J. Hawley, city engr. Noted Jan. 25.

Kan., Fredonia — Feb. 20, by W. O. Starns, city clk., constructing 46 blocks gravel macadam with concrete intersections and concrete curbs and gutters. Noted Feb. 8.

Kan., Leavenworth—Feb. 28, by J. E. Voorhees, engr., 516 North 5th St., concrete paving 4.55 mi. Fort to Fort Rd., Federal Aid Project 13, Sects. D and F. 18 ft., 5,600 cu.yd. earth and 200 cu.yd. rock excav., 48,427 sq.yd. concrete, 7,000 lb. steel reinforcing, etc.

Wyo., Casper—March 5, for 577,500 sq. ft. 4 in. and 8,000 sq.ft. 6 in. concrete sidewalks, 4,700 lin.ft. concrete cross-walks 5 ft. wide, 6 in. thick, 4,000 lin.ft. concrete curb 18 in. high, 6-9 in. thick and necessary grading. $127,000. F. S. Knittle, city engr. Noted Feb. 8.

N. D., Wahpeton — Feb. 26, by S. H. Murray, city clk. paving curbing and guttering 37 blocks, Portland cement concrete, bituminous concrete, vibrolithic concrete, bituminous macadam, bitulithic, wood blocks and brick. $155,000. L. W. Burdick, city engr.

Tex., Abilene—Feb. 23, by D. G. Hill, judge Taylor Co., grading 11.32 mi. and gravel surfacing 8¼ mi. State Highway 7, Federal Aid Project 182, 16 ft., 17,414 cu. yd. gravel, 1,582 cu.yd. concrete, 51,202 cu.yd. roadway and 14,632 cu.yd. borrow excav., 2,134 sq.yd. concrete pavement, 151,343 lb. reinforcing. W. A. Riney, co. engr.

Tex., Bastrop—Feb. 21, by J. B. Price, judge Bastrop Co., grading and bridging 6.25 mi. State Highway 3 A, Federal Aid Project 283, 24 ft., 31,418 cu.yd. roadway and 13,443 cu.yd. borrow excav., 342 cu.yd. concrete, 35,132 lb. reinforcing. $25,000. R. E. Shiller, engr.

Calif., San Diego—Feb. 26, by A. H. Wright, city clk., improving Laurel, Curlew, Brant, Union, Kalmia and 3rd Sts., 281,189 sq.ft. 1½ in. asphaltic concrete on 4 in. cement concrete, 285 lin.ft. concrete curb, 2,189 sq.ft. 1½ in. asphaltic concrete surfacing for gutters, etc.; Maple, Nutmeg and Olive Sts., 178,918 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, 389 lin.ft. concrete curb, 1,033 sq.ft. concrete sidewalks, 1,128 sq.ft. asphaltic concrete for gutters. F. A. Rhodes, city engr. Noted Nov. 30 and Dec. 28.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids Feb. 7, improving (1) 2.7 mi. Highway 5684, Chatham-Valatie, Part 1, Columbia Co., engrs. est. $112,254, (2) 1.33 mi. Highway 1544, Hyde Park-East Park, Dutchess Co., engrs. est. $56,560, (3) 6.61 mi. Highway 8150, Collins Center-Hamburg, Part 1, Erie Co., engrs. est. $272,680, (4) 4.84 mi. Highway 8151, Collins Center-Hamburg, Part 2, Erie Co., engrs. est. $223,993, (5) 10.07 mi. Highway 8152, Indian Lake-North River, Hamilton Co., engrs. est. $462,793, (6) 0.08 mi. Highway 1117-A, Rexford Clats-Hamlet, Saratoga Co., engrs. est. $4,391, (7) 0.11 mi. Highway 1662, Saratoga Lake Outlet, Saratoga Co., engrs. est. $8,943, (8) 3.47 mi. Highway 1665, Odessa-Mecklenburg, Part 1, Schuyler Co., engrs. est. $138,232, reconstructing (9) 4 mi. Repair Contrs. 3036 and 3037, Highways 155 and 152, Fonda East and Fonda West, Montgomery Co., engrs. est. $150,-292, (10) 4.24 mi. Repair Contr. 3049, Highway 340, Saratoga-Corinth, Saratoga Co., engrs. est. $92,474, from D. B. McGrath, Inc., Adams, Mass., (1) $107,664; Berkshire Constr. Co., Inc., Lee, Mass., (1) $110,474; S. Menaguale, Stockbridge, Mass., (1) $111,733; H. G. Strong, 151 East 38th St., New York City, (2) $48,-268; Spoor Lasher Co., Inc., 54 Market St., Poughkeepsie, (2) $51,610; J. E. Flood Co., Hudson Falls, (2) $53,285; Cold Spring Constr. Co., Ellicott Sq., Buffalo, (3) $247,280 (4) $201,706; J. Serio & Son, Jamestown (street address not available), (3) $263,426; Bewley-O'Reilly Co., Inc., Lockport (street address not available), (3) $267,063 (4) $215.076; S. Gamble Co., Carnegie, Pa., (4) $219,116; Bricon Constr. Co., Inc., 73 West Eagle St., Buffalo, (5) $405,345; L. Mayersohn, 6 Catalpa Dr., Albany, (5) $411,933; E. J. Anderson, Albany (street address not available), (5) $427,852; J. McLane, Rexford, (6) $3,784; J. Noonan, Saratoga Spa., (6) $4,191; F. F. Baker, Mechanicville, (6) $4,221; J. W. Flynn, 141 Broad St., Waterford, (7) $7,900; J. B. Dower, Ballston Spa., (7) $8,163 (10) $84,253; E. J. Doyle and E. B. Sanford, Albany (street address not available), (7) $8,353; W. Curtis & Co., Geneva (street address not available), (8) $125,042; Frost & Lowman, Watkins, (8) $128,644; L. D. Sullivan Co., Inc., White Bldg., Utica, (9) $147,617; C. T. Hookway, Hastable Bldg., Syracuse, (9) $149,-950; Rochester Vulcanite Paving Co., Rochester (street address not available), (9) $150,292; R. Hopkins Co., Albany (street address not available), (10) $83,-333; Ribstein-Holter Co., Inc., Rochester (street address not available), (10) $86,-914. Noted Jan. 18.

N. Y., Brooklyn—Dept. Parks, Municipal Bldg., New York, opened bids Feb. 8, improving Bay Parkway, here, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $106,984; Cranford Co., 52 9th St., $110,650; Borough Asphalt Co., 1301 Metropolitan Ave., $11,157. Noted Feb. 1.

N. Y., Long Island City — M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Feb. 8, grading roadway, sidewalk space and laying sidewalks on (1) 4th St., grading, curbing and laying sidewalks on (2) 50th St. (3) 116th St. (4) Jamaica Ave. (5) 42nd St. (6) 103rd Ave., grading sidewalk space and removing trees, etc., on (7) Burling Ave., grading, removing and replacing trees on (8) Tieman Ave., sheet asphalt paving (9) 116th St., grading and laying sidewalks on (10) Lewis St., from Welsh Bros. Contg. Co., 32 Queens St., (1) $3,871 (4) $7,719 (5) $7,610 (8) $14,875; F. J. Clancy, Corona, (1) $3,890 (2) $10,707 (4) $8,460 (5) $7,460 (8) $15,025; E. Block, (1) $4,348 (2) $11,345 (3) $8,280 (4) $8,978 (5) $7,686 (7) $863 (8) $16,300, (10) $1,100; Peace Bros., 57 North Laurence St., Flushing, (2) $12,215 (10) $1,050; Kennedy & Smith, 93 Amity St., Flushing, (3) $8,250 (6) $10,883 (7) $940; Soviero & Britten, 10111 114th St., Richmond Hill, (3) $7,928 (6) $9,735; J. J. O'Brien, Jr., William St., Jamaica, (6) $10,465 (10) $1,028; Tuohey & Upton, Inc., 129 Bway., Flushing, (7) $678; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (9) $14,-073; Cleveland Trinidad Paving Co., Flushing, (9) $14,850; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (9) $14,970; H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, (10) $1,050. Noted Feb. 1.

N. Y., New York—Dept. Parks, Municipal Bldg., opened bids Feb. 8, repaving Split Rock Rd., heavy traffic asphalt on concrete, Bronx Boro, from Asphalt Constr. Co., 2197 Madison Ave., $15,608; C. D. Beckwith, Inc., 2875 Bway., $19,897; Interboro Asphalt Co., 2306 Creston Ave., $27,481. Noted Feb. 1.

North Carolina—State Hy. Dept., Raleigh, opened bids Feb. 1, clearing, grading and concrete or asphaltic paving (1) 6.94 mi. State Project 429, Granville Co. (2) 7.34 mi. State Project 671, Rowan Co. (3) 19.21 mi. State Project 155 B, Martin and Pitt Counties (4) 14.96 mi. State Project 163, Nash Co. (5) 0.3 mi. State Project 291 B, Wilson Co. (6) 1.03 mi. State Project 391 A, Robeson Co. (7) 11.35 mi. State Project 743, Forsythe Co. clearing, grading and topsoiling (8) 20.55 mi. State Project 555, Montgomery Co. (9) 11.63 mi. State Project 815, Burke Co. (10) 17.36 mi. State Project 147, Bertie and Hertford Counties (11) 9.67 mi. State Project 752, Stokes Co. (12) 7.01 mi. State Project 403, Chatham Co. (13) 15.22 mi. State Project 363, Onslow Co. (14) 9.04 mi. State Project 486, Wake Co. clearing and grading (15) 19.43 mi. State Project 107, Bertie Co., clearing, grading, topsoiling and rein.-con. bridges and culverts on (16) 11.67 mi. State Project 512, Caswell Co., grading, concrete or asphaltic paving, rein.-con. bridges and culverts on (17) 8.94 mi. State Project 273, Sampson Co., clearing, grading and waterbound macadam paving (18) 7.31 mi. State Project 991, Transylvania Co., from A. B. Sandidge, Georgetown, Del., (1) $231,352; J. A. Kreis, 307 Burwell Bldg., Knoxville, Tenn., (1) $241,290 (7) $387,667 (8) $85,403 (16) $53,216 (18) $200,928; Pittman Constr. Co., Rhodes Bldg., Atlanta, Ga., (1) $244,337 (17) $87,519; Thompson-Caldwell Constr. Co., Mooresville, (2) $246,441; Stearns Bros., Inc., Statesville, (2) $258,197 (5) $28,635; Caughman Paving Co., Columbia, S. C., (2) $277,660 (4) $419,345; W. T. Hadlow, Baldwin Bldg., Jacksonville, Fla., (3) $493,900 (4) $400.458; Groves Co. & Shepard, 120 Manhattan Bldg., Duluth, Minn., (3) $524,492; C. S. Luck & Sons, 1617 Brook Rd., Richmond Va., (3) $562,-658; Public Service Production Co., Terminal Bldg., Newark, N. J., (4) $416,660; P. R. Ashby, Tucker Bldg., Raleigh, (5) $26.861; R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, (6) $40.120; Norfolk Equipment Co., Paul-Gale Greenwood Bldg., Norfolk, Va., (6) $42,553; Noll Constr. Co., Gastonia, (6) $44,039; Atlantic Bitulithic Co., Wash., D. C. (7) $376,441; Roger-Ferguson Co., High Point, (7) $400,371; Mayfield Constr. Co., Lakeview, (8) $82,-646; C. B. Hester, Greensboro, (8) $86,598; Geer & Wilson, Rutherfordton, (9) $89,446; Michaux Constr. Co., Morganton, (9) $93,-255 (11) $99,575; J. L. Carrol, Orangeburg, (9) $97,854; N. L. Teer, Durham, (10) $74,454 (15) $70,898 (16) $52,048; Porter & Peck, Greenville, (10) $76,853; W. E. Graham, Mt. Ulla, (11) $96,867; J. T. Plott, Greensboro, (11) $99,093 (16) $49,432; C. G. Kershaw Contg. Co., Woodward Bldg., Birmingham, Ala., (12) $40,567; Austin & Ritchie, Richfield, (12) $42,767; Ford & Tuck, Virgilina, Va., (12) $44,661; Newell Contg. Co., 3828 Ave. A, Birmingham, Ala., (13) $104,576; Duplin Constr. Co., Warsaw, (13) $114,723; Eagle Eng. Co., New Bern, (13) $126 036 (17) $88,610; W. W. Tuck & Son, Virgilina, Va., (14) $36,289; H. M. Beasley, Lumberton, (14) $36.739; O. A. Mann & Co., La Grange, Ga., (14) $36,932; Bacon & Moore, Norfolk, Va., (15) $59,838; J. F. Mulligan, North Wilkesboro, (15) $76,-262; General Constr. Co., Raleigh, (street address not available) (17) $89,542; Gibson Constr. Co., Holston Bank Bulg., Knoxville, Tenn., (18) $166,991; Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, (18) $201,014. Noted Jan. 11.

Fla., Sanford—City opened bids paving 13,110 sq.yd. Elm St., 14,443 sq.yd. Palmetto Ave., 13,638 sq.yd. Sanford Ave. and Magnolia St., 12,335 sq.yd. 4th and Myrtle Sts. (a) asphaltic concrete (b) sheet asphalt (c) rock base, from Hutton Eng. & Contg. Co., c/o F. T. Williams, Sanford, (a) $1.05 (b) $0.99 (c) $0.76; F. W. Long & Co., Realty Bldg., Jacksonville, (a) $0.93 (b) $0.92 (c) $0.89; J. F. Morgan Paving Co., Woodward Bldg., Birmingham, Ala., (a) $1.15 (b) $0.99 (c) $0.78. Noted May 11.

Alabama—State Hy. Dept., Montgomery, opened bids Feb. 2, grading and gravel surfacing 6.681 mi. road from Houston Co. line to Choctawhatchee River, Dale Co., from Dale Co. Court Comrs., Ozark, $52,-735; Lawrence, Nixon and Smith, Jackson, Miss., $61,712; Nichols Contg. Co., Trust

Streets and Roads (Continued)

Co. of Georgia Bldg., Atlanta, Ga., $75,-135. Noted Jan. 11.

O., Cleveland—Commissioner Purchases & Supplies, 219 City Hall, opened bids Jan. 31. grading, curbing and paving (1) Ada Ave. (2) Arbor Ave. (3) Elk Ave. (4) Gray Ave. (5) Gruss Ave. (6) Iroquois Ave. (7) Oakview Ave. (1-7 inclusive involve) 4,090 lin.ft. stone curb and 4 in. tile drain gutter, 6,600 cu.yd. earth excav., 13,900 sq.yd. vitr. brick (8) East 117th St. (9) East 130th St. (10) East 124th St. (11) East 127th St. (12) East 129th St. (8-12 inclusive involve) 4,650 lin.ft. stone curb and 4 in. tile drain gutter, 10,030 cu.yd. rock excav., 8,670 sq.yd. vitr. brick, from O. G. Leach, Eddy Rd., (1) $6,722 (2) $16,236 (10) $14,678; Baldwin Bros., 4500 Euclid Ave., (2) $21,931; River Constr. Co., 2402 Mapleside Rd., (3) $5,502 (4) $5,743 (6) $13,372 (8) $6,725 (11) $15,-275; Rieley Bros., The Arcade, (3) $5,531 (5) $15,572 (7) $9,700 (8) $7,986 (9) $13,739 (10) $15,905 (11) $18,224 (12) $5,403; Roehl Bros., West 25th St. and Lorain Ave., (4) $6,471; H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., (5) $15,534; Gould & Maybach, 823 East 150th St., (6) $10,858 (7) $9,878 (9) $13,-545 (12) $5,308. Noted Jan. 25.

Indiana—State Hy. Dept., Indianapolis, opened bids Jan. 30, paving 6.063 mi. Lincoln Highway and 6.78 mi. Lincoln Highway, 16 ft., in Allen Co., from Williams & Baldwin Co., Cleveland Heights, O., $126,-907 and $128,005 respectively, M. D. Putnam, Ft. Wayne, $198,907 and $211,482 respectively. Engrs. est. $143,035 and $144,-666 respectively; 6,471 mi. French Lick Rd. and Vanderburg Co., from J. D. Shelby, Lebanon, $123,257. Pfizenmeyer Constr. Co., Terre Haute, (street address not available), $149,943, engrs. est. $133,802; 6.95 mi. Boot Jack Rd., Laporte Co., from Municipal Constr. and Supply Co., 128 West 9th St., Gary, $139,823, Gerhart Constr. Co., Chicago, (street address not available), $174,823, engrs. est. $154,502. Noted Jan. 18.

Wis., Fond du Lac—Fond du Lac Co. State Road and Bridge Com. opened bids Jan. 31. concrete surfacing, etc., 5.1 mi. Ladoga-Brandon-Ripon Rd., from Kroening Constr. Co., 221 Grand Ave., Milwaukee, $124,530; F. Doherty, 753 47th St., Milwaukee, $143,137; Froeming Bros., 1326 Humboldt Ave., Milwaukee, $144,541. Noted Jan. 25.

Ia., Colfax—For 22,447 sq.yd. pavement, etc., 16,898 lin. ft. curbing, from Lambert Constr. Co., 715 21st St., Des Moines, vitr. brick on 5 in. base with asphalt filler, $3.29 per sq.yd.; J. Horrabin & Co., 1422 Walnut St., Des Moines, 2 in. asphaltic concrete on 5 in. base, $2.96; Union Constr. Co., 1829 East 12th St., Des Moines, 6 or 7 in. plain concrete $2.20. Noted Jan. 25.

Ia., Des Moines—See "Bridges."

Neb., Omaha—C. F. Bossie, city clk., opened bids Jan. 30, paving, curbing, etc., with (a) asphalt (b) asphaltic concrete (c) vitr. brick blocks type J (d) vitr. brick (e) vitr. brick block type D (f) vitr. block type E (g) vitr. brick block type K (h) artificial stone, in following districts:

Dist. 1748, 5,855 yd., from Natl. Constr. Co., 511 Federal Reserve Bank bldg., (a) $2.85 (b) $2.69 (c) $3.42, 200 lin.ft. natural stone curb $1.25; J. H. McDonald, 3169 Farnam St., 741 ft. artificial stone curb $0.65; J. Sherlock, 301 Karbach Bldg., (d) $4.09; Amer. Paving Corp., 1325 Grace St., (e) $3.50 (c) $3.42.

Dist. 1749, 3,638 yd., from Natl. Constr. $2.88 (b) $2.69 (c) $3.42; J. Sherlock, 301 Karbach Bldg., (d) $3.84; Amer. Paving Corp., 1315 Grace St., (c) $3.42 (e) $3.50, 2,140 lin.ft. natural stone curb $1.35; J. H. McDonald, 3169 Farnam St., 2,140 lin.ft. artificial stone curb $0.65; H. Murphy Constr. Co., 204 Karbach Bldg., 2,740 ft. artificial combined curb and gutter $0.63.

Dist. 2019, 3,494 yd., from Natl. Constr. Co., 511 Federal Reserve Band Bldg., (a) $2.33 (b) $2.03 (f) $3.54 (g) $3.39; H. Murphy Constr. Co., 204 Karbach Bldg., 2,538 lin.ft. artificial stone combined curb and gutter $0.53.

Dist. 2053, 4,553 yd., from Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (a) $2.33 (b) $2.03 (f) $3.48 (g) $3.36; H. Murphy Constr. Co., 204 Karbach Bldg., 2,981 lin.ft. artificial combined curb and gutter $0.53.

Dist. 2117, 7,467 yd., from H. Murphy Constr. Co., 204 Karbach Bldg., (a) $2.44 (b) $2.09, 5,237 lin.ft. artificial stone combined curb and gutter $0.53; Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (f) $3.62 (g) $3.36.

Dist. 2122, 3,181 yd., from H. Murphy Constr. Co., 204 Karbach Bldg., (a) $2.44 (b) $2.09, 2,336 lin.ft. artificial stone combined curb and gutter $0.53; Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (g) $3.42; J. H. McDonald, 3169 Farnam St., (f) $3.55.

Dist. 2209, 8,463 yd., from Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (a) $2.43 (b) $2.03 (f) $3.48 (g) $3.36; H. Murphy Constr. Co., 204 Karbach Bldg., (h) $2.43; White Constr. Co., 15th and Marcy St., 6,200 lin.ft. artificial stone combined curb and gutter $0.50.

Dist. 2219, 20,619 yd., from Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (a) $2.53 (b) $2.03 (f) $3.49 (g) $3.19; H. Murphy Constr. Co., 204 Karbach Bldg., (h) $2.43; White Constr. Co., 15th and Marcy Sts., 14,575 lin.ft. artificial stone combined curb and gutter $0.50.

Dist. 2225, 3,125 yd., from Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (a) $2.33 (b) $2.03 (f) $3.48 (g) $3.36; H. Murphy Constr. Co., 204 Karbach Bldg., 2,310 lin.ft. artificial stone combined curb and gutter $0.53.

Dist. 2236, 12,084 yd., from Natl. Constr. Co., 511 Federal Reserve Bank Bldg., (a) $2.43 (b) $2.03 (f) $3.48 (g) $3.49; H. Murphy Constr. Co., 204 Karbach Bldg., (h) $2.43; White Constr. Co., 15th and Marcy Sts., 8,670 ft. artificial stone curb and gutter $0.50. Noted Jan. 25.

Missouri—See "Bridges."

Missouri—State Hy. Dept. Jefferson City opened bids Feb. 2, (1) 2.789 mi. road on Laclede Co. line, east, 34 ft., State Project Route 14, Sect. 40, Pulaski Co. (2) 5 mi. road south of Steelville, 16 ft., State Project Route 19, Sect. 4, Crawford Co. (3) 3.087 mi. road on Stone Co. line. 12 ft., State Project Route 3, Sect. 112, Taney Co. (4) 3.03 mi. road on Laclede Co. line, east, 34 ft., State Project Route 14, Sect. 39, Pulaski Co. (5) 3.707 mi. road south of Rolla, 12 ft., State Project 7, Sect. 65, Phelps Co. (6) 0.568 mi. road west of Moberly, 18 ft., State Project Route 10, Sect. 37, Randolph Co. (7) 3.833 mi. road south of Forsythe, 12 ft., State Project Route 78, Sect. 3. Taney Co., from S. T. Rollins, Waynesville, (1) $9,402 (4) $8,515; J. P. Lyon, Robinson, Ill., (1) $15,571 (4) $14,283; Powell Gaven Co., Collinsville, Ill., (2) $28,926; Jours & Lenox, Rolla, (2) $30,769; H. Kassman, Union, (2) $33,608; E. A. Luck, Black Rock, Ark., (3) $17,312; Kerr, Moore & Logan Co., Ozark, (3) $17,421; Springfield Constr. Co., Springfield (street adress not available), (3) $17,602; M. E. Gillioz, Monett, (5) $22,701; Rolla Constr. Co., Rolla, (5) $23,018; Allhands & Davis, 705 Frisco Bldg., Joplin, (5) $23,047; Lynch McDonald Contsr. Co., Moberly, (6) $32,086; J. E. Hartley, Mt. Vernon, (7) $15,227; Cox & Chaney, Branson, (7) $15,366; Plyley & Bickley, Walnut Ridge, Ark., (7) $18,302. Noted Jan. 25.

Missouri — State Hy. Dept., Jefferson City, opened bids Feb. 2, improving (1) 2.5 mi. road east and west of Zebra, 24 ft., State Project Route 15, Sect. 63, Camden Co. (2) 4.318 mi. road east of Brunswick, 30 ft., State Project Route 10, Sect. 24, Chariton Co. (3) 4.452 mi. Mound City Rd., 30 ft., State Project Route 1, Sect. 13, Holt Co. (4) 2.548 mi. road from Mound City northwest, 30 ft., State Project Route 1, Sect. 14, Holt Co. (5) 4.962 mi. road on Jasper Co. line east, 34 ft., State Project Route 14, Sect. 5, Lawrence Co. (6) 2.897 mi. road on Jasper Co. line east, 34 ft., State Project Route 14, Sect. 8, Lawrence Co. (7) 4.986 mi. road on Jasper Co. line east, 34 ft., State Project Route 14, Sect. 6, Lawrence Co. (8) 1.082 mi. road northwest of Hannibal, 18 ft., State Project Route 9, Sect. 26, Marion Co. (9) 3.238 mi. road from Stone Co. line south, 12 ft., State Project Route 3, Sect. 113, Taney Co., from Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, (1) $22,798; General Constr. Co., Syndicate Trust Bldg., St. Louis, (1) $22,887; M. E. Gillioz, Monett, (1) $23,939; C. Parker, Keytesville, (2) $14,658; Joyce & Co., Keokuk, Ia., (2) $18,681; Maloney & Whalen, St. Louis, (street address not available), (2) $18,733; Roberts & Reynolds Constr. Co., Sabetha, Kan., (3) $33,810 (4) $25,913; Cook & O'Brien Constr. Co., 305 Ry. Exch., Kansas City, (3) $34,805; E. Euler, Troy, Kan., (3) $35,394; Pittsburg Des Moines Steel Co., Tuttle and S. W. 10th Sts., Des Moines, Ia., (4) $24,700; F. E. Marsh & Co., Des Moines, Ia., (street address not available), (4) $26,856; Carterville Constr. Co., Carterville, (5) $18,679 (6) $22,037 (7) $32,214; Kelley & Underwood, Granby, (5) $19,094 (7) $35,947; T. E. Rock, Joplin (street address not available), (5) $20,737; J. E. Hartley, Mt. Vernon, (6) $20,356 (9) $18,552; Coopers Constr. Serv. Co., Federal Reserve Bank Bldg., St. Louis, (6) $22,818 (8) $40,823; M. A. Holman Constr. Co., Carterville, (7) $33,009; H. C. Harbicht & Co., Hannibal, (8) $36,737; Cox & Chaney, Branson, (9) $17,897; Springfield Constr. Co., Springfield (street address not available), (9) $18,713. Noted Jan. 25.

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, opened bids Feb. 6, improving (1) 5,600 Arsenal St., 36 ft., concrete, engrs. est. $77,900, (2) 2,250 ft. Taylor Ave., 36 ft., warrenite, engrs. est. $53,350, (3) 3,100 ft. 7th St., 36 ft., recut granite, engrs. est. $83,680, (4) $5,202 ft. Clayton Ave., 36 ft., asphalt, engrs. est. $54,800, (5) 1,900 ft. Chouteau Ave., 26 ft., asphalt, engrs. est. $16,400, (6) 5,140 ft. West Florissant Ave., 50 ft., asphalt on concrete, engrs. est. $132,000, from Skrainka Constr. Co., Security Bldg., (1) $86,637 (3) $99,-463; G. Eyerman & Bros., 1216 South Grand Ave., (1) $92,533 (3) $97,926; F. Stiers Constr. Co., 4500 Enright St., (1) $90,122; Granite Bituminous Paving Co., Railway Exch. Bldg., (2) $54,842; O. S. Brighton, 4115 McRee Ave., (2) $57,444 (4) $59,249 (5) $18,264 (6) $166,800; Independent Quarry & Constr. Co., 4875 Ashland St., (3) $86,654 (4) $53,015; Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., (4) $60,941 (6) $139,084; A. V. Wills & Son, Title Guaranty Bldg., (5) $18,386 (6) $167,033; Fuller Constr. Co., 828 Chestnut St., (5) $18,766. Noted Jan. 18.

Oklahoma—State Hy. Dept., Oklahoma City, paving (1) 11.5 mi. Federal Aid Project 100, Okfuskee Co. (2) 7.436 mi. Federal Aid Project 75, Okfuskee Co. (3) 10.026 mi. Federal Aid Project 76, Okfuskee Co. (4) 12.204 mi. Federal Aid Project 64, Okfuskee Co., (a) gravel (b) bituminous macadam (c) rock asphalt, from Meyer & Greenwald, Muskogee, (1a) $167,628 (2b) $104,534; Forbes-Graville-Hamblin Co., Muskogee, (1b) $124,996; Maney Bros., 304 Empire Bldg., Oklahoma City, (1c) $134,782 (2c) $132,480; Ellis & Lewis, Muskogee, (2a) $108,246; P. Laro & Sharp, Okemah, (3a) $145,370 (3b) $114,605 (3c) $134,782; A. A. Davis & Co., 301 West 119th St., Oklahoma City, (4a) $205,642. Noted Jan. 18.

Calif., Los Angeles—City opened bids improving 1st St. between Rampart Blvd. and Vermont St., 300,176 sq.ft. grading, 271,465 sq.ft. asphalt paving, 25,405 sq.ft. concrete paving, 1,057 sq.ft. asphalt remodeling, 3,306 ft. warrenite-bitulithic paving, 8,187 lin.ft. concrete curb, 47,057 sq.ft. walks, 8,789 sq.ft. concrete gutters, 2,222 lin.ft. house sewers, etc., from Warren Constr. Co., 5444 Hollywood Blvd., $138,150; G. R. Curtis, 2440 East 26th St., $140,837; G. H. Oswald, 366 East 58th St., $146,465.

Calif., San Diego — Common Council opened bids Feb. 5, improving Imperial Ave. and 14 other Streets, from J. Engebretsen, McNeece Bldg., 15,352 cu.yd. earth excav. at $0.87 per cu.yd., 8,993 cu.yd. earth embankment $0.15, 20,663 lin.ft. cement concrete curb $0.67, 101,100 sq.ft. cement concrete sidewalks $0.23, 2,115 sq. ft. cement concrete gutters $0.29, total $56,369; H. G. Fenton, 168 10th St., $58,-067; J. Hansen, 3168 J St., $58,530. Noted Jan. 25.

Calif., San Jose—Santa Clara Co. opened bids Feb. 5, improving (1) King Ave. in Superv. Dist. 2 (2) Naglee Ave. in Superv. Dist. 4, from San Jose Paving Co., Dupont and San Carlos Sts., (1) $19,470 (2) $13,-190; J. Doyle, San Jose, (1) $23,442 (2) $15,457; A. J. Raisch, 46 Kearny St., San Francisco, (1) $24,500 (2) $17,200. Noted Jan. 18.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, paving 19,470 ft. Shore Rd., in Guilford, plain and rein.-con., to C. W. Blakeslee & Sons, Inc., 58 Waverly St., New Haven, $174,686 (cement to be furnished by State), Engrs. est. $225,000; concrete substructure, retaining walls and cement floors for 80 ft. steel truss bridge, over West River, in Guilford, to J. G. Holbrook, R. D. Westbrook. Engrs est. $15,000. Noted Jan. 25.

N. Y., Jamestown—Will pave Sampson St. and Hall Ave., brick on 5 in. concrete, by day labor, under supervision of L. O. Bergman, city engr. $25,000. Noted Feb. 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and flagging Sickles St., etc., to T. Di Roma, 33 Evelyn Pl., $42,344; Dongan Pl., to F. Gasparine, $32,258; paving Ft. Washington Pl., to C. D. Beckwith, 2187 Bway., $8,140. Noted Feb. 1.

Pa., Phila.—Grading and paving G St., to Lombardi & Co., Inc., Lincoln Bldg., $65,323. Noted Feb. 8.

West Virginia—State Rd. Dept., Charleston, grading 7.2 mi. Philippi-Taylor Co. Line Rd., Project 3184, Barbour Co., 37,938 lin. ft. clearing, 110,000 cu.yd. unclassified, 158 cu.yd. wet, 3,733 cu.yd. dry and 17,461 cu. yd. borrow excav., 2,748 sta.yd. overhaul, 1,117 cu.yd. concrete, 22,385 lb. reinforcing, 3,264 lin.ft. 18-36 in. rein.-con. pipe, etc., to C. E. Price, 2750 Division St., Huntington, $126,530, 3 mi. Cameron-Littleton Rd., Project 3167 A, Marshall Co., 15,850 lin.ft. clearing, 30,000 cu.yd. unclassified, 660 cu.yd. dry and 350 cu.yd. borrow excav., 450 cu.yd. concrete, 2,500 lb. reinforcing, 1,326 lin.ft. 15-24 in. corrugated metal pipe, etc., to Stringer & Springer, Wheeling, $34,-000, 5 mi. New Martinsville-West Union Rd.,

Streets and Roads (Continued)

Project 3163, Tyler Co., 25,730 lin.ft. clearing, 48,000 cu.yd. unclassified, 300 cu.yd. dry and 9,600 cu.yd. borrow excav., 690 cu.yd. concrete, 11,600 lb. reinforcing, 1,414 lin.ft. 15-36 in. rein.-con. pipe, 626 lin.ft. 15-18 in. corrugated metal pipe, etc., to C. V. Walker, Fremont, Mich., $67,200, 5 mi. Frenchburg-Virginia Rd., Project 3147 A, Hampshire Co., 26,920 lin.ft. clearing, 39,800 cu.yd. unclassified, 350 cu.yd. wet and 1,350 cu.yd. dry excav., 3,380 sta. yd. overhaul, 1,060 cu.yd. concrete, 19,320 lb. reinforcing, 2,190 lin.ft. 15-24 in. corrugated metal pipe, etc., to McClure & Bingner Co., Johnston, Pa., $62,725, 2.25 mi. Seng Creek-Seth Rd., Project 3205 A, Boone Co., 11,800 lin.ft. clearing, 34,000 cu.yd. unclassified and 370 cu.yd. dry excav., 376 cu.yd. concrete, 6,825 lb. reinforcing, etc., to Goda & Nash, Huntington, $48,049, 5 mi. Berkeley Springs-Great Cacapon Rd., Project 3198, Morgan Co., 26,000 lin.ft. clearing, 77,000 cu.yd. unclassified, 160 cu.yd. wet and 1,900 cu.yd. dry excav., 1,250 sta.yd. overhaul, 670 cu.yd. concrete, 4,600 lb. reinforcing, 2,300 cu.yd. dry rubble masonry, 1,950 lin.ft. 15-24 in. corrugated metal pipe, 2,200 cu.yd. shale surfacing, etc., to Monongahela Constr. Co., Fairmont, $121,628, 5 mi. Cottageville-Mason Co. Line Rd., Project 3074 C, Jackson Co., 24,800 lin.ft. clearing, 45,100 cu.yd. unclassified, 630 cu.yd. dry and 208 cu.yd. borrow excav., 220 cu.yd. concrete, 2,900 lb. reinforcing, 1,230 lin.ft. 15-18 in. rein.-con. pipe, 546 lin.ft. 15-24 in. corrugated metal pipe, to C. F. McQueen, Charleston, $39,100, 8.3 mi. Sunset-Greenbank Rd., Project 3182 B, Pocahontas Co., 42,900 lin.ft. clearing, 51,000 cu.yd. unclassified, 630 cu.yd. wet, 920 cu.yd. dry and 8,700 cu.yd. borrow excav., 1,098 cu.yd. concrete, 23,600 lb. reinforcing, 105 cu.yd. cement rubble masonry, 1,860 lin.ft. 18 in. vitr. clay pipe, to Battershill & Goode, Virgilina, Va., $77,065, 2 mi. Marlinton-Buckeye Rd., Project 3171, Pocahontas Co., 11,160 lin.ft. clearing, 33,350 cu.yd. unclassified and 265 cu.yd. dry excav., 282 cu.yd. concrete, 4,300 lb. reinforcing, 350 cu.yd. cement rubble masonry, 660 lin.ft. 18 in. vitr. clay pipe, to Waugh Bros., St. Albans, $39,487, 5.3 mi. Union-Rock Camp Rd., Project 3045 D, Monroe Co., 25,675 lin.ft. clearing, 64,100 cu.yd. unclassified, 415 cu. yd. wet, 845 cu.yd. dry and 3,050 cu.yd. borrow excav., 1,071 cu.yd. concrete, 21,150 lb. reinforcing, 235 cu.yd. cement rubble masonry, 1,990 lin.ft. 18 in. vitr. clay pipe, to Roberts Constr. Co., Pulaski, Va., $88,268, 3.5 mi. Northwestern Turnpike, Project 3204 A, Preston Co., 17,880 lin.ft. clearing, 60,000 cu.yd. unclassified, 934 cu.yd. dry and 1,062 cu.yd. borrow excav., 544 cu.yd. concrete, 1,207 lin.ft. 18-24 in. corrugated metal pipe, etc., to W. J. and J. T. Gephart, Elkins, $62,473, 6 mi. Shady Springs-Summers Co. Line Rd., Project 3052, Raleigh Co., 32,810 lin.ft. clearing, 66,460 cu.yd. unclassified, 335 cu.yd. wet, 835 cu.yd. dry and 4,840 cu.yd. borrow excav., 1,025 sta. yd. overhaul, 636 cu.yd. concrete, 19,030 lb. reinforcing, 198 cu.yd. cement rubble masonry, 2,240 lin.ft. 18 in. vitr. clay pipe, to A. Keathly, Charleston, $91,521, 5 mi. Franklin-Elkins Rd., Project 3175, Pendleton Co., 23,120 lin.ft. clearing, 39,500 cu.yd. unclassified, 160 cu.yd. wet and 900 cu.yd. dry excav., 1,200 sta.yd. overhaul, 480 cu.yd. concrete, 7,250 lb. reinforcing, 560 cu.yd. dry rubble masonry, 5,200 cu.yd. gravel surfacing, 1,120 lin.ft. 15-24 in. corrugated metal pipe, etc., to Dayton Constr. Co., Elkins, $77,519, 8.5 mi. Moorefield-Petersburg Rd., Project 3148, Hardy Co., 46,000 lin.ft. clearing, 42,000 cu.yd. unclassified, 320 cu.yd. wet and 1,600 cu.yd. dry excav., 1,300 sta.yd. overhaul, 1,400 cu.yd. concrete, 28,300 lb. reinforcing, 400 cu.yd. dry rubble masonry, 1,760 lin.ft. 15-24 in. corrugated metal pipe, etc., to L. J. Chandler, Virgilina, Va., $68,738, 12.5 mi. Northwestern Turnpike, Project 122, Sects. B and C, Grant Co., 64,800 lin.ft. clearing, 90,600 cu.yd. unclassified, 870 cu.yd. wet and 2,900 cu.yd. dry excav., 23,450 sta.yd. overhaul, 2,060 cu.yd. concrete, 38,600 lb. reinforcing, 4,580 lin.ft. 18-18 in. corrugated metal pipe, etc., to H. W. Kaylor, Cumberland, Md., $153,004; grading and concrete paving 1 mi. New Martinsville - Wileyville Rd., Project 47, Wetzel Co., 2,000 cu.yd. unclassified and 500 cu.yd. dry excav., 180 cu.yd. concrete, 17,200 lb. reinforcing, 1,150 cu.yd. one course cement concrete pavement, 33,030 lb. metal reinforcing for cement concrete paving, 3,700 cu.yd. borrow, etc., to Ritchie & Ritchie, Ravenswood, $30,600, 2.8 mi. Flat Run-Metz Rd., Project 3187, Marion Co., 5,384 cu.yd. one course cement concrete, 14,987 lin.ft. clearing, 60,000 cu.yd. unclassified, 1,218 cu.yd. dry and 790 cu.yd. borrow excav., 3,714 sta.yd. overhaul, 229 cu.yd. concrete, 2,631 lb. reinforcing, 309 cu.yd. cement rubble masonry, 1,374 lin.ft. 18-24 in. rein.-con. pipe, etc., to Seiple-Wolfe Co., Youngstown O., (street address not available), $155,675; grading and paving with bituminous macadam 8 mi. Lewisburg-Camp Ground Rd., Project 127, Greenbrier Co., 40,500 lin.ft. clearing, 86,800 cu.yd. unclassified, 155 cu.yd. wet, 1,185 cu.yd. dry and 7,100 cu.yd. borrow excav., 55,000 sta.yd. overhaul, 1,261 cu.yd. concrete, 14,750 lb. reinforcing, 2,430 lin.ft. 18 in. vitr. clay pipe, 18,300 cu.yd. broken stone base course, 82,300 sq.yd. bituminous macadam, 185,200 gal. bituminous material for penetration macadam, etc., to Dougher Boone Constr. Co., Charleston, $305,532; grading and paving with waterbound macadam 7 mi. Charlestown-Kearneysville Rd., Project 3026, Jefferson Co., 35,000 lin.ft. clearing, 38,200 cu.yd. unclassified, 100 cu.yd. wet and 200 cu.yd. dry excav., 1,500 sta.yd. overhaul, 320 cu.yd. concrete, 1,800 lb. reinforcing, 1,490 lin.ft. 15-24 corrugated metal pipe, 8,600 cu.yd. stone subbase course, 8,900 cu.yd. broken stone base course, 62,200 sq.yd. waterbound macadam, etc., to Moore & Lessley, Staunton, Va., $145,047. Noted Jan. 11.

Georgia—State Hy. Dept., Atlanta, 2.61 mi. F. P. Benning Rd. from city limits of Columbus to Bull Creek, Federal Aid Project 288, Muscogee Co., sheet asphalt, to S. E. Finley, 210 West North Ave., Atlanta, $59,125.

Fla., Crestview — Comrs. Okaloosa Co., grading 17 mi. road from Milligan to Alabama State line, preparatory to sand clay dressing, to J. B. Corley, Crestview, $0.25# per cu.yd.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Fulton Co., Sect. "Wauseon" Bryan-Wauseon Rd., 0.619 mi., rein.-con., to Lynn Constr. Co., Paulding, $25,338.

Geauga Co., Sect. "K-2" Cleveland-Meadville Rd., 2.536 mi. asphalt macadam, oil, to Central Paving Co., Hamilton (street address not available), $79,816.

Geauga Co., Sect. "A" Euclid-Chardon Rd., 4.06 mi. asphalt macadam, oil, to Central Paving Co., Hamilton (street address not available), $98,425.

Jackson Co., Sect. "L" Jackson-Ironton Rd., 4.433 mi. rein.-con., to O. M. Junk, Chillicothe, $137,974.

Montgomery Co., Sect. "R" Dayton-Greensville Rd., 3.965 mi., Kentucky rock asphalt, to McArthur Constr. Co., Kenton, $131,923.

Morrow Co., Sect. "L" Mt. Gilead-Mansfield Rd., 6.322 mi., Kentucky rock asphalt, to McArthur Constr. Co., Kenton, $168,229.

Trumbull Co., Sect. "P" Youngstown-Conneaut Rd., 2.80 mi., brick and bituminous macadam, tar, to Evans & Evans, Hubbard, $137,161.

Holmes Co., Sect. "L-2" Mansfield-Millersburg Rd., 1.678 mi., grading only, to C. Drake, Nashville, $15,195.

Holmes Co., Sec. "K" Mansfield-Millersburg Rd., constructing superstructure and grading, to Stout & Stout, Stoutsville, $18,981. Noted Feb. 1.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving (1) 4.88 mi. Route 2, Sect. 52, De Witt Co. (2) 3.04 mi. Route 3, Sect. 8, Rock Island Co. (3) 3.95 mi. Route 3, Sect. 9, Rock Island Co. (4) 2.37 mi. Route 3, Sect. 10, Rock Island Co. (5) 5.12 mi. Route 3, Sect. 18, Rock Island Co. (6) 6.82 mi. Route 4, Sect. 5, Grundy-Will Co. (7) 4.53 mi. Project 25, Sect. 6, Grundy Co. (8) 1.66 mi. Route 6, Sect. 29, Whiteside Co., (9) 7.49 mi. Route 9, Sect. 6, Tazewell Co. (10) 3.71 mi. Route 14, Sect. 1, Perry Co. (11) 5.24 mi. Route 14, Sect. 3, Perry-Franklin Co. (12) 3.22 mi. Route 15, Sect. 19, Wayne Co. (13) 3.55 mi. Route 15, Sect. 20, Wayne Co. (14) 7.99 mi. Route 17, Sect. 3, Marshall Co. (15) 5.85 mi. Route 17, Sect. 4, Marshall Co. (16) 4.12 mi. Route 18, Sect. 13-C, Kendall Co. (17) 2.29 mi. Route 18, Sect. 14-C, Kendall Co. (18) 5.82 mi. Route 25, Sect. 33, Iroquois-Ford Co. (19) 5.98 mi. Route 25, Sect. 34, Iroquois Co. (20) 5.7 mi. Route 25, Sect. 35, Iroquois Co. (21) 3.93 mi. Route 25, Sect. 38, Kankakee-Iroquois Co. (22) 4.73 mi. Route 25, Sect. 39, Kankakee Co. (23) 2.92 mi. Route 28, Sect. 3, Knox Co. (24) 6.87 mi. Route 37, Sect. 4, Franklin Co. (25) 3.64 mi. Project 38, Sect. 46, Schuyler Co. (26) 2.63 mi. Project 38, Sect. 47, Schuyler Co.; grading (27) 93,316 cu.yd. Route 3, Sect. 23-A, Mercer Co. (28) 263,700 cu.yd. Route 12, Sect. 24-A, Clinton Co. (29) 20,375 cu.yd. Route 15, Sect. 19-A, Wayne Co. (30) 28,285 cu.yd. Route 15, Sect. 20-A, Wayne Co. (31) 46,700 cu.yd. Route 16, Sect. 13-A, Shelby Co. (32) 28,610 cu.yd. Route 25, Sect. 12-A, Effingham Co. (33) 39,630 cu.yd. Route 25, Sect. 13-A, Effingham-Shelby Co. (34) 13,460 cu.yd. Route 25, Sect. 14-A, Shelby-Cumberland Co. (35) 15,267 cu.yd. Project 25-A, Sect. 6-A, Grundy Co. (36) 50,000 cu.yd. Project 38, Sect. 46-A, Schuyler Co., to L. S. Kuhn, Bloomington, (1) $109,445 (23) $56,451.

W. O'Neil Sons Co., Earibault, Minn., (2) $107,100 (3) $81,344 (4) $54,151.

H. W. Horst Co., Horst Bldg., Rock Island, (5) $117,961.

Powers-Thompson Constr. Co., Joliet, (6) $124,997 (7) $78,256 (35) $8,665.

Cook County Constr. Co., 2315 North Seeley Ave., Chicago, (8) $37,351.

Hoffman & Small, Lincoln, (9) $153,799.

H. H. Hall Constr. Co., Murphy Bldg., East St. Louis, (10) $72,171 (11) $110,375.

French Constr. Co., Fairfield, (12) $52,436 (13) $56,230.

W. D. Lonergan Constr. Co., New Madrid, Mo., (14) $137,244 (15) $105,788.

Trompeter & Sons, Peru, (16) $79,512 (17) $46,713.

C. W. Clark Co., Clinton, Ind. (street address not available), (18) $104,369 (19) $111,991 (20) $122,997.

Shanks & Gannon Constr. Co., Watseka, (21) $60,567 (22) $98,433.

O. Arnold, Casey, (24) $118,276.

F. B. Rees, 1710 Lind St., Quincy, (25) $85,853 (26) $61,557.

Lamoreaux Bros. Co., 805 Brandeis Theatre Bldg., Omaha, Neb., (27) $43,904.

M. D. Gates, Lincoln, (28) $55,338.

D. C. Jordan & Sons, Fairfield, (29) $11,542 (30) $14,621.

Alzina Constr. Co., Springfield, (31) $16,503.

Mautz & Oren, Effingham, (32) $17,269.

C. B. Mautz, Benton, (33) $25,916 (34) $11,834.

A. O. McCoy, Rushville, (36) $19,545. Noted Nov. 16.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving with monolithic brick (1) 5.71 mi. Route 1, Sect. 8, Edwards-Wabash Co. 4 in. (2) 4.48 mi. Route 15, Sect. 21, Edwards Co. concrete paving (3) 4.6 mi. Route 1, Sect. 9, Wabash Co. (4) 6.74 mi. Route 1, Sect. 10, Wabash Co. (5) 3.43 mi. Route 1, Sect. 17, Lawrence Co. (6) 5.55 mi. Route 1, Sect. 18, Lawrence-Crawford Co. (7) 6.27 mi. Route 3, Sect. 15, Whiteside Co. (8) 5.07 mi. Route 3, Sect. 38, McDonough Co. (9) 7.38 mi. Route 8, Sect. 7, Henderson Co. (10) 7.1 mi. Route 8, Sect. 33, Woodford Co. (11) 6.18 mi. Route 16, Sect. 12, Shelby Co. (12) 5.17 mi. Route 28, Sect. 9, Henry Co. (13) 4.15 mi. Route 44, Sect. 17-A, Will Co. (14) 3.22 mi. Route 11, Sect. W-1, Fayette Co. (15) 0.74 mi. Route 4, Sect. 20, Logan Co. (16) 6.76 mi. Route 4, Sect. 23, Logan Co. (17) 6.5 mi. Route 4, Sect. 24, Logan Co. (18) 5.28 mi. Route 8, Sect. 36, Tazewell Co. (19) 5.7 mi. Route 9, Sect. 28, Hancock Co. (20) 9.62 mi. Route 3, Sect. 4, Cass Co. (21) 3.08 mi. Route 8, Sect. 11, Peoria Co. (22) 1.87 mi. Route 8, Sect. 13, Peoria Co. (23) 2.97 mi. Route 8, Sect. 16, Peoria Co. (24) 3.85 mi. Route 8, Sect. 17, Peoria Co. (25) 1.76 mi. Route 8, Sect. 37, Tazewell Co. (26) 6.59 mi. Route 25, Sect. 19, Coles Co. (27) 7.42 mi. Route 25, Sect. 20, Cole-Douglas Co. (28) 4.65 mi. Route 9, Sect. 5, Woodford Co.; grading (29) 57,830 cu.yd. Route 1, Sect. 13-A, Wabash-Lawrence Co. (30) 22,645 cu.yd. Route 1, Sect. 15-A, Lawrence Co. (31) 32,000 cu.yd. Route 8, Sect. 34-A, Woodford Co., to A. J. Parrish, Paris, (1) $170,743 (2) $132,227 (3) $107,426 (4) $169,742.

R. F. Conway Co., 133 West Washington St., Chicago, (7) $152,827 (8) $127,601 (9) $173,182 (12) $138,132 (13) $111,633 (18) $120,861 (21) $87,605 (22) $60,738 (23) $83,812 (24) $116,166 (25) $43,466.

Stressenreuter Bros., 3020 Halsted St., Chicago, (5) $86,749 (6) $124,781.

Hedges Constr. Co., Chamber of Commerce Bldg., Chicago, (10) $183,127 (28) $109,393.

L. Clotfelder, Hillsboro, (11) $140,916.

W. C. Johnson, 512 South High St., Belleville, (14) $68,151.

H. K. Rhoades, Lincoln, (15) $18,782.

Chicago Heights Coal Co., Chicago Heights, (16) $171,472 (17) $170,258.

Cameron, Joyce & Co., Keokuk, Ia., (19) $146,351.

W. C. Meneely, Frankfort, Ind., (20) $233,404 (26) $155,590 (27) $174,647.

Morris & Barthelmy, St. Francisville, (29) $25,872.

D. C. Jordan & Sons, Rinard, (30) $8,792.

New Era Constr. Co., 5548 Bosworth Ave., Chicago, (31) $8,572. Noted Jan. 4.

Ill., East St. Louis—Paving 2,000 ft. St. Clair Ave., 1st St. to Collinsville Ave., 50-60 ft., 8,940 sq.yd. asphalt on present brick, to O. S. Brighton, 4115 McRee St., St. Louis, Mo., $32,435. Noted Nov. 2.

Ia., Idagrove—For 54,000 sq.yd. paving and 29,000 lin.ft. curbs and gutters to Bryant Asphalt paving Co., Waterloo, $2.62 per sq.yd. for streets, $2.27 for alleys, $0.86 per ft. for curbs and gutters.

Tex., Center—Shelby Co. clearing, grading, and gravel surfacing 6 mi. Highway 35, Federal Aid Project 280, 16 ft., to B. Latimer, Garrison, $47,581. Engrs. est. $78,935. Noted Feb. 8.

Tex., Dallas — Dallas Co. grading and bituminous topping 13 mi. Beckley Rd., 18

Streets and Roads (Continued)

...ft. to Hill, Wilson & Watson, North Texas ...Bldg., $116,603, engrs. est. $150,000; grading and bituminous topping 5 mi. Bonnie View Rd., 18 ft., to Miller Constr. Co., North Texas Bldg., Dallas, $69,067, engrs. est. $75,000.

Tex., Tyler—Smith Co. grading, gravel surfacing and 1½ in. bituminous topping on 8.8 mi. State Highway 3, Chandler Rd., Federal Aid Project 316, 18 ft., to Smith Co., c/o W. B. Marsh, agent, or D. R. Pendleton, co. judge, Tyler, $120,433. Engrs. est. $132,476. Noted Jan. 25.

Calif., Crescent City—Paving, curbing, guttering and laying sewers in various streets, to J. A. Dowling, Call Bldg., San Francisco, $170,655. Noted Feb. 8.

Calif., Fresno—Improving portion M St., to Thompson Bros., G. and Davisadero Sts., $31,780. Noted Jan. 4.

Industrial Works

PROPOSED WORK

Mass., Salem—P. A. Sweeney, et al., 246 Essex St., plan 4 story cold storage plant. $150,000. Engineer or architect not announced.

Mass., Springfield—Springfield Gas Light Co., West State St., plans 1 story, 60 x 100 ft. gas purifying plant, brick and steel, Water St., to replace one recently wrecked by explosion. $50,000-$100,000. Private plans.

R. I., Providence—J. Bartley, 67 Washington St., plans 1 story garage and service station, brick and concrete, Dean and Washington Sts. $40,000.

Conn., East Norwalk (South Norwalk P. O.)—Crofut & Knapp, Water and Tolles Sts., South Norwalk, having plans prepared by Fletcher-Thompson, Inc., archts. and engrs., 542 Fairfield Ave., Bridgeport, 2, 3 and 4 story factory, rein.-con., steel and brick. $800,000.

Conn., Hartford—Standard Mattress Co., 71 North St., having plans prepared by Golden-Storrs & Co., archts. and engrs., 118 Asylum St., 4 story, 40 x 52 ft. factory, rein.-con. and brick, plain foundation, North St. $40,000.

N. Y., Buffalo—Standard Oil Co. of New York, 103 Elk St., plans barrel plant in rear of present station and office building. $175,000. Engineer or architect not selected.

Pa., Farrell—J. B. Roux having plans prepared by W. A. Ullom, archt., Horton Bldg., 4 story and basement, 22 x 155 ft. brick and tile freight and warehouse, Bway. $150,000.

Pa., Hollidaysburg—Wright Laundry plans 3 story and basement, 80 x 95 ft. laundry and store building, brick, Juniata and Hickory Sts. $60,000.

Pa., Monaca—Nichols Wire & Sheet Co., Rochester, plans 1 story, 80 x 300 ft. factory, Penna. Ave. and 17th St., here. $50,000. Private plans.

Pa., New Castle—Standard Wire Co., 716 West Brant St., plans 1 story, 40 x 135 ft. concrete factory, Sampson St. Private plans.

Md., Baltimore—Union Bros., 2119 East Fayette St., had plans prepared by S. Russell, archt., 11 East Lexington St., 4 story, 50 x 140 ft. factory, brick, Cross St. near Hanover St. $50,000.

N. C., Rockingham—Leak Mfg. Co., having plans prepared by Robert & Co., engrs. and archts., Tuft Bldg., Atlanta, Ga., for cotton mill. $750,000.

Ky., Brownsville—Rock Asphalt Co., Bowling Green, plans asphalt refinery along Green River, here. $200,000. Engineer or architect not announced.

O., Cleveland—Commercial Bookbinding Co., 2231 West 110th St., soon lets contract 1 story, 120 x 156 ft., brick and steel factory, $50,000. A. E. Fowler, secy. Private plans.

O., Cleveland—Ohio Provision Co., Clark Ave. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R., had plans prepared by Anders & Reimers, archts., Erie Bldg., 1 story, 25 x 126 ft. cooler building, brick, steel and concrete. $40,000.

O., East Cleveland (Cleveland P. O.)—City having plans prepared by M. B. Garnett, archt., City Hall, 1 story, brick, steel and concrete garage, Marloes Ave. $50,000.

Ill., Chicago—Reo Motor Car Co., 2417 Michigan Ave., plans 2 story, 85 x 125 ft. auto sales and service station, rein.-con., brick and steel, Bway. and Early Ave. $100,000. E. B. Press, 4909 Bway. archt.

Minn., Minneapolis—See "Buildings."

Minn., Minneapolis—Olson & Serley, 2901 Bryant Ave. S., had plans prepared by P. E. Crosier, archt., 916 New York Life Bldg., 3 story and basement, 38 x 65 x 80 ft. warehouse, brick and concrete, 2909 Bryant Ave. S. $40,000.

Minn., St. Paul—S. K. Fitch, 519 Montrose Ave., having plans prepared by W. M. Ingeman, archt., 637 Endicott Bldg., 1 story, 56 x 198 ft. garage, brick and steel, Rice St. and Como Ave. $50,000.

Minn., St. Paul—Waldorf Paper Products Co., Myrtle St. and Hampden Ave., having plans prepared by H. A. Sullwood, archt., 641 Endicott Bldg., 5 story and basement, 84 x 193 ft. and 1 story, 63 x 193 ft. factory, rein.-con., brick and tile, Myrtle St. and Hampden Ave. $175,000.

Neb., Omaha—S. L. Collins Oil Co., Knoxville, Ia., plans 7 fireproof filling stations and 1 warehouse, capacity 100,000 gal. oil and 250,000 gal. gasoline with trackage space, etc., here. $250,000. Private plans.

Mo., St. Louis—United Bakeries Corp., Grand Blvd. and Natural Bridge Rd., soon takes bids 1 and 2 story, 75 x 130 ft. bakery, rein.-con. and brick, plain foundation, Benton St. $100,000. A. J. Tuchschmidt, Rialto Theatre Bldg., archt.

Mo., St. Louis—Voted $8,650,000 bonds (city's share) for street opening and widening and $5,800,000 for paving, repaving and improving streets.

Okla., Tulsa—See "Railways."

Okla., Weatherford—See "Waterworks."

Calif., Fresno—Fresno Evening Herald, L and Inyo Sts., plans 1 story addition to publishing plant. To exceed $50,000. Engineer or architect not selected.

Calif., Los Angeles—R. Arnold c/o J. M. Cooper, archt., Marsh Strong Bldg., having plans prepared 5 story, 132 x 417 x 464 x 775 ft., rein.-con. warehouse, Alameda St.

Calif., Sacramento—Having plans prepared Silver Creek Municipal Power Project, incl. 3 power plants, 150,000 hp. dam, tunnels, etc. Cost to exceed $5,000,000. A. Given, city engr.

Calif., South San Francisco (San Francisco P. O.)—Metal and Thermit Corp., 120 Bway., New York City, having plans prepared rolling mill, on 14 acre site, Swift St., here. $1,500,000-$2,000,000. E. W. Kardos, c/o Swift & Co., South San Francisco, dist. mgr.

Canada—See "Railways."

BIDS DESIRED

N. Y., Brooklyn—Simon Knitting Mills, c/o H. J. Nurick, archt. and engr., 44 Court St., 4 story, 65 x 100 ft., brick, steel and concrete factory, plain foundation, Hart St. $65,000. Work will be done by separate contracts under supervision of architect.

N. Y., New York—Claremont Palace Garden, Inc., c/o M. W. Del Gaudio, archt. and engr., 160 West 45th St., 1 story, 200 x 210 ft., brick, steel and concrete garage plain foundation, 170th St. and 3rd Ave. $100,000. D. C. Piciujo, pres. Work will be done by separate contract under supervision of architect.

Pa., Barnesboro—Feb. 23, by M. Strollo & Sons, 2 story and basement, 80 x 130 ft. rein.-con., brick and steel warehouse, 17th St. $150,000. I. J. Pfeister, Spangler, archt.

Pa., Brackenridge—Atlantic Bottle Co. will build 1 story, 50 x 180 ft. factory. $300,000. Work will be done by separate contracts. Structural steel, to Pittsburgh Bridge & Iron Co., Bessemer Bldg., Pittsburgh.

Pa., Chambersburg—D. P. Minick, 147 East Queen St., taking bids 3 story, 40 x 115 ft. cold storage plant and power house, brick, East Queen St. $75,000. J. Crowe, Hartman Bldg., York, archt.

Pa., Etna (Pittsburgh P. O.)—Seyler Mfg. Co., Butler Plank Rd., and B. H. Prack, archt. and engr., Keystone Bldg., Pittsburgh, will build 1 story, 60 x 150 ft. concrete and steel factory, by separate contracts. Structural steel let to Memphis Steel Constr. Co., Magee Bldg., Pittsburgh, roofing to C. D. Wallace Co., 525 1st Ave., Pittsburgh.

O., Cincinnati—Feb. 19, by A. M. Allen & Co., archts., 7016 Euclid Ave., Cleveland, 7 story and basement, 175 x 600 ft., brick, steel and concrete terminal warehouse, Front and Central Aves., here, for Cincinnati Terminal Warehouse Co. $2,000,000. Noted May 4.

O., Cleveland—Fisher Bros. Co., 2323 Lakeside Ave., taking bids and opens same about Feb. 22, 1 and 2 story, 117 x 120 ft., brick, steel and concrete, garage and machine shop, Lakeside Ave. near East 22nd St. $60,000. W. S. Lougee, Marshall Bldg., archt. Noted Jan. 11.

O., Cleveland—Lindsay Wire Weaving Co., 14025 Aspinwall Ave., taking bids 2 story and basement, 120 x 200 ft., brick, steel and concrete factory and office building, $100,000. H. L. Lindsay, pres. Bohnard & Parsson, 1900 Euclid Ave., archts.

Mich., Jackson—Feb. 19, by H. Mead, archt., Michigan Trust Bldg., Grand Rapids, 5 story and basement, 88 x 133 ft. and 72 x 133 ft. brick additions to factory, plain foundations, for Michigan Seating Co., Jackson. $250,000.

Mich., River Rouge—Feb. 20, by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 6 story, 107 ft. high, 24 x 75 ft. sintering plant, rein.-con. and steel, for Ford Motor Co., Highland Park (Detroit P. O.) $50,000.

Wis., Markesan—River View Canning Co., c/o W. A. Miller, taking bids 3 story, 40 x 96 ft. main factory, 2 story, 40 x 80 ft. warehouse, 1 story, 34 x 34 ft., cook room, brick and timber, plain foundation. $60,000. Private plans.

Wis., Oshkosh—Auler & Jensen, archts., F. R. A. Bldg., taking bids rebuilding 3 story and basement, 42 x 140 ft., brick and concrete warehouse, Algoma St., recently destroyed by fire, for Medberry-Findeisen Co., 58 Algoma St. $45,000.

Minn., Minneapolis—Feb. 20, by Murphy Transfer Co., 309 3rd Ave. N., 4 story and basement, 114 x 119 ft. warehouse, rein.-con., brick and tile, and 1 story and basement, 68 x 149 ft. garage and office, brick and concrete, 4th St. and 9th Ave. N., $100,000 and $40,000 respectively. Lang, Raugland & Lewis, 627 Metropolitan Bank Bldg., archts. Noted Jan. 5, 1922.

BIDS RECEIVED

Pa., Phila.—Bd. Educ., 17th and Chestnut Sts., opened bids Feb. 8, 3 and 4 story, 87 x 150 ft. brick and steel warehouse and plant, Front and New Sts., from Kober Constr. Co., Middle City Bldg., $107,977; Barnes & McLaughlin, 17 South 17th St., $117,564; Cramp & Co., Denckla Bldg., $118,765. Noted Feb. 1.

CONTRACTS AWARDED

R. I., Pawtucket—Tubular Woven Fabric Co., Pawtucket Ave., 1 story and basement, 45 x 60 ft. and 40 x 90 ft. mill addition, brick and timber, plain foundation, Pawtucket Ave., to O. D. Purington & Co., Inc., 49 Westminster St., Providence. Archts. est. $40,000.

N. Y., Brooklyn—A. L. Jaffe, c/o Seelig & Finkelstein, archts. and engrs., 44 Court St., 1 story, 25 x 100 ft., brick, steel and concrete garage, plain foundation, 14th St., by day labor. $50,000.

N. Y., New York—E. E. Smathers, c/o J. M. Felson, archt. and engr., 1133 Bway., 1 story, 150 x 200 ft., brick, steel and concrete garage, plain foundation, 4353 Bway., by day labor. $75,000.

Pa., Pittsburgh—Linde Air Products Co., 30 East 42nd St., New York City, 1 and 2 story, 101 x 161 ft., 14 x 60 ft. and 26 x 52 ft. plant, Westfall St., to Cuthbert Bros., Bessemer Bldg. Noted Jan. 25.

Pa., Pittsburgh—Amer. Metallic Packing Co., 3621 Mexico St., 2 story and basement, 30 x 34 ft. brick factory, Mexico St., to F. Westphal, 3241 McClure Ave. Archts. est. $50,000.

Pa., Pittsburgh—B. H. Prack, archt. and engr., Keystone Bldg., 5 story and basement, 80 x 300 ft. factory, Susquehanna Ave., to J. F. Love Co., Arrott Bldg., for Pittsburgh Meter Co., East Pittsburgh. Archts. est. $350,000. Noted Jan. 25.

Pa., Warren—Conewango Furniture Co., 115 South Carver St., 2 and 3 story, 50 x 300 ft. brick addition to factory, Carver St., to G. Brown, Warren.

Ga., Atlanta—See "Buildings" under office.

Ala., Albany—Cooper-Wells Hosiery Co., 2 story, 100 x 160 ft., hosiery mill, to Baxter Bros. Constr. Co., Huntsville, $50,000.

O., Cleveland—Cleveland Metal Products Co., 7600 Platt Ave., altering brick and timber factory and constructing railroad trestle, 7609 Platt Ave., to Hunkin-Conkey Constr. Co., Century Bldg. Archts. est. $60,000. Noted Feb. 8.

O., Dayton—Johnson Watson Printing Co., East 3rd St., 4 story and basement, 59 x 162 ft., printing plant and office building, rein.-con., brick and steel, North Jefferson St., to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, $150,000. Noted Jan. 18.

O., Lakewood (Cleveland P. O.)—R. G. Curren, Leader News Bldg., Cleveland, 1 story, 41 x 100 ft., brick and steel garage, 18123 Detroit Ave., here, to Heman Eng. & Constr. Co., 1412 Orchard Grove Ave. Archts. est. $40,000.

Ind., Evansville—General Cigar Co., 2 Upper 2nd St., 4 story and basement, 75 x 75 ft. factory, brick and heavy timber, 2nd St., to M. J. Hoffman Constr. Co., Furniture Bldg., $60,000. Noted Oct. 5.

Ill., Chicago—E. J. Brach & Sons, 3 story, 60 x 100 ft., rein.-con., brick and steel factory addition, 401-53 North Kilpatrick Ave., to R. F. Wilson & Co., 1851 Elston Ave. Archts. est. $75,000. Noted Aug. 31.

Ill., Chicago—Bike Web Mfg. Co., 29 South Clinton St., 1 story, 80 x 164 ft. factory, rein.-con., brick and steel, 4115-21 Ravenswood Ave., to Dahl-Stedman Co., 11 South La Salle St. Archts. est. $40,000. Noted Feb. 1.

Ill., Chicago—J. Wolff, c/o R. G. Wolff, archt., 400 North Michigan Ave., 6 story, 48 x 105 ft., rein.-con., brick and steel warehouse, 3165-67 Lincoln Ave., to A. Brundage, 110 South Dearborn St. Archts. est. $150,000.

Wis., Milwaukee—Kremers Urban Co., 529 Market St., 3 story, 50 x 150 ft. warehouse, brick and timber, Sherman St., to

Industrial Works (Continued)
H. Danischefsky, 1484 Humboldt Ave. Archts. est. $45,000.

Wis., Milwaukee—Milwaukee Gas Light Co., 182 Wisconsin St., 1 story, 60 x 220 ft., brick and timber addition to warehouse, Erie St., to H. Schmitt & Sons, 430 Farwell Ave. Archts. est. $42,000.

Wis., Sheboygan—Badger State Tanning Co., South Water St. and Maryland Ave., 4 story, 50 x 95 ft., tannery and warehouse, brick and steel, plain foundation, to Truscon Steel Co., 415 M. M. Bank Bldg., Milwaukee. Noted Jan. 4.

Minn. Minneapolis—I. S. Whitman, 932 Hennepin Ave., 1 story, 55 x 110 ft., and 3 story, 55 x 65 ft. garage and office, rein.-con. and brick, 216 South 10th St., general contract to M. Glassberg, 2 North 10th St. Archts. est. $60,000.

Mo., St. Louis—Polar Wave Ice & Fuel Co., Olive St. near Grand Blvd., 1 and 2 story, 60 x 123 ft., rein.-con. and brick garage, plain foundation, 12th St., to Duffner & Strecker, 119 North 7th St. Archts. est. $40,000.

Okla., Oklahoma City—L. Perrine 130 West 1st St., 2 story and basement, 60 x 140 ft., garage, 6th St., to Crissman & Santee, Southwest Natl. Bank Bldg., $39,800.

Calif., Pittsburg—Columbia Steel Corp., Balboa Bldg., San Francisco, group of 5 steel and corrugated iron buildings, erecting frame and walls, to Union Constr. Co., Key Route Fill, Oakland. Other work will be done by owners. Noted Jan. 18, under Portland, Ore.

Calif., Sacramento—Consumers Ice and Cold Storage Co., 8th and D Sts., rein.-con. addition to ice plant, general contract to D. R. Wagner, Call Bldg., San Francisco, $40,700; equipment to Gay Eng. Co., 336 California St., San Francisco.

Calif., San Francisco—L. R. Lurie Co., Mills Bldg., 2 story, 120 x 192 ft. rein.-con. garage, Fell and Gough Sts., to Vukicevich and Bagge, 180 Jessie St., $125,000. Pacific Telephone & Telegraph Co., 333 Grant Ave., lessee. Noted Feb. 8.

Ont., Toronto—Ford Motor Co. of Canada, 672 Dupont St., 1 story, 400 x 500 ft. assembly building and 1 story, 50 x 120 ft. power house, (1st unit), rein.-con., brick and steel. Danforth Ave., to Anglin-Norcross Ltd., Temple Bldg., $400,000. Noted Nov. 2.

Buildings

PROPOSED WORK

Mass., Northampton—Hotel—Playmouth Inn Associates, plans 7 story addition to present Inn, (126 rooms), West St. $560,000. Mowil & Rand, 21 School St., Boston, archts.

R. I., Central Falls—Hospital—Notre Dame Hospital, c/o Franco-American Society of Rhode Island, plans 3 story, brick, Hunt and Broad Sts. $250,000. C. H. Boucher, Broad St., member of hospital com. Engineer or architect not announced.

R. I., Providence—College—College Hill Land Co., c/o L. Jacobs, pres., having revised plans prepared by G. F. Hall, archt., Union Trust Bldg., 3 story, 90 x 140 ft., brick and steel, College St. $200,000. Bryant & Stratton Business College, lessee. Noted April 20.

N. Y., Brooklyn — Apartment — Kenmore Trading Corp., c/o W. T. McCarthy, archt. and engr., 159 Remsen St., having plans prepared, 178 x 222 ft., brick, steel and stone, plain foundation, Kenmore Pl. and Caton Ave. $1,000,000.

N. Y., Brooklyn—Exchange—New York Telephone Co., 15 Dey St., New York, having plans prepared by McKenzie, Voorhies & Gmelin, archts. and engrs., 342 Madison Ave., New York, 3 story, 100 x 250 ft., brick, steel and stone, plain foundation, Carroll St. and Troy Ave., here. $650,000.

N. Y., Brooklyn—School—B. Balktowsky, c/o E. M. Adelsohn, archt. and engr., 1778 Pitkin Ave., having plans prepared 4 story, 75 x 75 ft., brick, steel and stone, plain foundation, 79th St. $200,000.

N. Y., Fairport—High School—Bd. Educ. having plans prepared by O. W. Dryer, archt., 310 Cutler Bldg., Rochester, 2 story and basement, 134 x 166 ft., rein.-con. and steel, West Main St.

N. Y., Mayville—High School—Plans election to vote on $160,000 bonds for brick high school. Engineer or architect not announced.

N. Y., New York — Theatre — Weber & Fields, c/o C. C. Weber & Co., archts. and engrs., 3rd and Walnut Sts., Cincinnati, O., having preliminary plans prepared, brick, steel and stone, plain foundation, West 43rd St., here. $2,000,000.

Pa., Aspinwall—School—Bd. Educ. of O'Hara Twp. having plans prepared by J. T. Steen & Son, archts., Vandergrift Bldg., Pittsburgh, 2 story and basement, 62 x 85 ft., near here. $150,000.

Pa., Clearfield—Temple—Loyal Order of Moose having plans prepared by W. V. Justus, archt., Punxsutawney, 3 story and basement, 70 x 100 ft. brick and tile, Market St. $150,000.

Pa., Indiana—High School—Bd. Educ. having plans prepared by Thayer & Johnson, archts., 39 North Jefferson St., New Castle, 2 story and basement, brick, steel and stone. $350,000.

Pa., Pittsburgh—Temple—Islam Grotto, Montgomery Ave., receiving competitive sketches 2 story, 90 x 160 ft. and 40 x 60 ft., brick, steel and tile, Montgomery Ave. $300,000.

Md., Baltimore — Community — Baltimore Properties Co., c/o A. D. Le Esperande, Cambridge Apartments, plans 4 story store, office, market, theatre, hotel, etc., rein.-con., and brick, Maryland and North Aves. $1,750,000. B. H. Prack, Keystone Bl., Pittsburgh, Pa., archt.

D. C., Wash.—Apartment—H. A. Kite, 1514 K St., N. W., had plans prepared by A. H. Sonneman, archt., 1518 K St., N. W., apartment house, 100 apartments, $2,000,000.

D. C., Wash. — Hotel — Lincoln Hotel Corp., 10th and H Sts., having plans prepared by C. McLane, archt., 127 North Dearborn St., Chicago, for New Lincoln Hotel, (300 rooms) 12th and H Sts., here. $1,000,000.

D. C., Wash.—Synagogue—Washington Hebrew Congregation, 8th St. between H and I Sts., plans synagogue. $500,000. Engineer or architect not selected.

D. C., Wash.—Temple—Natl. Literary Society, Inc., International Bldg., having plans prepared by W. Douden, archt., 501 7th St., N. W., for temple. $1,250,000.

W. Va., Huntington—Office—Coal Exch. Bldg. Corp., having plans prepared by Meanor & Handloser, archts., Robson-Prichard Bldg., 14 story, 60 x 170 ft., concrete and steel, 4th Ave. and 11th St. $700,000.

La., Baton Rouge — Bank — Louisiana Natl. Bank having plans prepared by Sanguinette & Staats, archts., 1st Natl. Bank Bldg., Fort Worth, Tex., and E. F. Neild, archt., Shreveport, 8 story, (ultimately 12 story) 3rd and Convention Sts. $750,000.

O., Akron—School—Plans brick, Brown and Archwood Sts. $800,000. M. M. Konarski, 102 South Union St., archt.

O., Cleveland—Hotel—Brownell Building Co., c/o S. Kaplan, 1418 Prospect Ave., plans 10 or 11 story, 140 x 148 ft., brick, steel and concrete, East 14th St. and Prospect Ave. $1,500,000. Engineer or architect not selected.

Mich., Detroit — Apartment — R. D. French, 4841 Iroquois Ave., having plans prepared by F. E. Hill, archt., 711 Empire Bldg., 4 story and basement, 50 ft. high, 81 x 90 ft. brick and steel, plain foundation, East Grand Blvd. $150,000.

Mich., Detroit — Apartment — Williams Bros., archts., 1111 Kresge Bldg., preparing plans 4 story and basement, 100 x 107 ft. rein.-con., brick and steel, plain foundation, Hazelwood Ave. $150,000. Owner's name withheld.

Mich., Detroit—Church—St. Matthias Episcopal Church, A. S. Gill, pastor, Vinewood and Grand River Aves., having plans prepared by Verner, Wilhelm & Molby, archts., 602 Book Bldg., 2 story, 60 x 150 ft., rein.-con., brick and steel, plain founadtion, Grand River Ave. $175,000.

Mich., Detroit—Office—Buhl Land Co., Buhl Blk., having plans prepared by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 26 story and basement, 320 ft. high, 120 x 187 ft. rein.-con., brick, steel and stone, Griswold and Congress Sts.

Ill., Chicago — Apartment — Fugard & Knapp, archts., 219 East Superior St., preparing plans 13 story, 94 x 100 ft., rein.-con., brick and steel, Bitter Sweet Pl. and Lake Shore Dr. $400,000. Owner's name withheld.

Ill., Chicago—Apartment—W. Pickel, c/o P. F. Olsen, archt., 127 North Dearborn St., having plans prepared 3 story, 108 x 152 ft., rein.-con., brick and steel, Cornelia and Pine Grove Aves. $250,000.

Ill., Chicago — Apartment-Hotel — Halperin & Braun, archts., 19 South La Salle St., preparing plans 10 story, 200 x 300 ft., rein.-con., brick and steel, Sheridan Rd. near Grace St. $5,000,000. Owners name withheld.

Wis., Madison—Hotel—H. Fauerback, 938 Spaight St., plans 5 story, brick, rein.-con. and steel, plain foundation, Monona St. $200,000. Engineer or architect not selected.

Wis., Manitowoc—Bank and Office—Manitowoc Savings Bank, South, 8th and Jay Sts., having plans prepared by W. J. Raeuber, archt., 8th & Jay Sts., 3 story, 50 x 92 ft., brick, rein.-con. and stone, plain foundation, South 8th St. $150,000.

Wis., Milwaukee—Bank—Amer. Exch. Bank, Plankinton Arcade, having revised plans prepared by Kirchoff & Rose, archts., 221 Grand Ave., 3 story and basement, 63 x 102 ft., brick, concrete and steel, plain foundation, Grand Ave. $300,000.

Ia., Burlington—High School—Bd. Educ. having plans prepared by Burrows & Temple, archts., Davenport, 2 story and basement, 2 wings, rein.-con., brick, tile and stone. $300,000. D. S. Cooper, secy.

Ia., Cedar Rapids—Lodge—Independent Order of Odd Fellows, Temple Assn., c/o W. L. Sleight, chn., 1511 Washington Ave., plans 3 story and basement, rein.-con., brick, tile and stone. $150,000. Architect or engineer not selected.

Ia., Council Bluffs—Office—M. Wollman, 606 Oakland St., had plans prepared by C. Jensen, archt., 4th St. and Bway., 6 story and basement, rein.-con., brick, tile and stone. $225,000.

Ia., University Park—Gymnasium, etc.—Holmes University plans 2 story and basement, 40 x 120 ft. gymnasium, $100,000, and 2 story and basement, 40 x 100 ft. science hall and library, $50,000, both rein.-con., brick and tile. J. L. Brosher, pres.

Minn., Minneapolis—Office, etc.—G. P. Newell & Co., c/o A. B. Newell, 1st Ave. N. and 3rd St., having plans prepared by W. H. Wheeler, archt., 1110 Metropolitan Life Bldg., 5 story and basement, office and warehouse, about 122 x 140 ft., rein.-con., brick and tile, 6th Ave. N. and 3rd St. $175,000.

Minn., St. Paul—Hospital—Comrs. Ramsey Co. plans 3 or 4 story, rein.-con., brick and tile, Jefferson and Colborne Sts, $200,000. F. W. Matson, Courthouse, secy.

Kan., Coffeyville—Hotel—H. Powell having plans prepared by Shephard & Wiser, archts., 302 R. A. Long Bldg., Kansas City, Mo., 5 story and basement, 100 x 140 ft., terra cotta, rein.-con. and stone. $300,000.

Kan., Hays—Schools—Capauchin Fathers c/o L. Lief, Concordia, having plans prepared by C. A. Smith, archt., 109½ Santa Fe Ave., Salina, 4 school buildings. $1,000,000.

Kan., Sabetha—Hospital—St. Anthony Hospital having plans prepared by C. A. Smith, archt., 109½ Santa Fe St., Salina, 3 story and basement, 44 x 140 ft., brick. $150,000.

Kan., Topeka—Hospital—Christ Hospital, 10th and West Sts., having plans prepared by Garden & Martin, archts., 104 Michigan Ave., Chicago, 4 story and basement, stucco, brick and hollow tile. $500,000.

Kan., Topeka—Hotel—Topeka Hotel Co. had plans prepared by T. W. Williamson & Co., archts., 312 Central Natl. Bank Bldg., 10 story and basement, 100 x 150 ft., 200 rooms, brick and stone, 7th and Jackson Sts. $600,000. Noted Oct. 5.

Neb., Lincoln—Hotel—Fleisher Constr. Co., 606 Builders' Exch. Bldg., Minneapolis, Minn., is representing owner who plans 8 story, fireproof, (280 rooms) $1,000,000, Private plans.

Mo., Kansas City—Hospital—Methodist Episcopal Church having plans prepared by R. E. Peden, archt., 945 New York Life Bldg., and takes bids early in spring 5 story and basement, 100 room, rein.-con., brick and cut stone, 13th and Tracy Sts. $150,000.

Mo., Kansas City—Hotel—C. E. McLaughlin, c/o Sunderland & Bescke, archts., 406 Interstate Bldg., having plans prepared 4 story, 84 x 100 ft., rein.-con., brick and stone, 16th and Central Sts. $135,000-$160,000.

Mo., Kansas City—Theatre—E. J. Willett and H. W. Pennach, c/o Lodge & Gornall, archts., 1505 Commerce Bldg., having plans prepared 2 story and basement, 110 x 192 ft., rein.-con., 36th St. and Bway. $250,000.

Mo., St. Louis—Auditorium, etc.—Voted $5,000,000 bonds for auditorium and community center, $4,500,000 for additions to hospitals, $4,000,000 for new court house and site, $1,250,000 for reconstruction public markets, $772,500 for fire engine houses and equipment and $400,000 for aquarium.

Tex., Austin—College—State Legislature, Austin, passed bill providing for Texas Technological College, appropriating $150,000 for site, $500,000 for buildings for fiscal year 1923-24, $350,000 for buildings fiscal year 1924-25, and $2,500 for site purchasing commission.

Okla., Tulsa — Passenger Depot — See "Railways."

Colo., Canon City—High School, etc.—School Dist. having plans prepared by E. Groves, archt., Foster Bldg., Denver, 2 story and basement, 60 x 192 ft. high school and 53 x 80 ft. gymnasium and auditorium, brick or terra cotta. $228,000.

Colo., Denver — Physicians — Imperial Bldg. Assn., 14th St. and Court Pl., having preliminary plans prepared by Varian & Varian, archts., Denver Gas & Electric Bldg., addition to physicians' building. $380,000.

Buildings (Continued)

Ore., Portland—Apartment—J. H. Grant, archt., Henry Bldg., takes bids in about 4 weeks. 4 story, 93 x 105 ft., rein.-con., 20th and Madison Sts., for J. Moore, 766 East Burnside St. $200,000.

Ore., Portland — Office — United Cigar Stores of America, 557 Howard Bldg., San Francisco, Calif., plan office building on Washington St. and Bway., here. $2,000,000.

Calif., Auburn—Jail, Hospital, etc.—Bd. Supervs. Placer Co. appointed committee to select architect who shall present estimates of cost for county jail, hospital and hall of records building. Jail and records building will probably be combined. To exceed $150,000.

Calif., Los Angeles—School—City having plans prepared by Noerenberg & Johnson, archts., Los Angeles Ry. Bldg., 3 story, fireproof, 16th St. To exceed $300,000.

Calif., Redondo—High School—Redondo Union High School Dist. to vote on $195,000 bonds for additions to high school.

Calif., Sacramento—High School—City rejected bids opened Jan. 15, 1 and 2 story, brick, steel, concrete and terra cotta. Will readvertise. Mathews & Simpson, Call Bldg., San Francisco, archts. Noted Feb. 8.

Calif., San Francisco—Home, etc.—French Hospital, Anza and 6th Aves., having plans prepared by Fabre & H.ldebrand, archts., 110 Sutter St., 4 story and basement, nurses' home, and 2 story, maternity pavilion, both brick. $150,000.

Calif., San Francisco—Hotel and Store—A. B. Grosse, 795 Sutter St., having plans prepared by V. W. Houghton, archt., 275 Post St., 6 story and basement, rein.-con., Turk and Jones Sts. $150,000. Noted Feb. 8.

Calif., San Francisco—School—City and San Francisco Co. having plans prepared by A. G. Headman, archt., Call Bldg., school, 16 class rooms and auditorium, Sommerset and Bacon Sts. $250,000.

Calif., San Francisco—Store and Loft—L. H. and E. Allyne, 2609 Gough St., having plans prepared by Reid Bros., archts., 105 Montgomery St., 5 story and basement, rein.-con., Mission, Ecker and Jessie Sts. $150,000.

Calif., San Francisco—Store and Office—L. R. Lurie, Mills Bldg., having preliminary plans prepared by O'Brien Bros., Inc., archts., 315 Montgomery St., 2 story and basement, rein.-con., California St. near Kearny St. $150,000.

Calif., San Francisco—War Memorials—City and San Francisco Co. plan war meomrials, incl. opera house, conservatory of music, dramatic club, clubhouse for American Legion, and art museum, on 4 blocks bounded by McAllister, Grove, Franklin Sts. and Van Ness Ave. To exceed $2,500,000. Engineer or architect not selected.

Calif., San Rafael—Schools—San Rafael School Dist. plans to vote on $210,000 bonds for elementary schools and $290,000 bonds for high school. Engineer or architect not selected.

Canada—Lunch Rooms, Stations, etc.—See "Railways."

BIDS DESIRED

N. Y., Albany—Bank—March 5, by M. T. Reynolds, archt., 100 State St., 10 story and court, 24 x 175 ft., with 200 ft. steel tower in center, brick, steel and terra cotta, for City Savings Bank, 100 State St. $850,000. Noted Oct. 5.

N. Y., New York—Schools—Feb. 23, by W. H. Gompert, archt. Bd. Educ., Flatbush Ave. Extension and Concord St., Brooklyn, for addition to P. S. 12, Frisby Ave. and Overing St.; additions to P. S. 33, Jerome and Walton Aves. between East 184th St. and Fordham Rd., Bronx Boro.

N. Y., Niagara Falls—Bank and Office—Feb. 25, by Niagara Falls Trust Co., 45 Falls St., 10 story, 45 x 145 ft., Falls St. $300,000. Noted Dec. 14.

Pa., Braddock—Bank—Feb. 26, by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, brick, steel and stone, plain foundation for 1st Natl. Bank. $200,000. Noted Jan. 18.

Pa., Bryn Mawr — Hospital — A. N. Brockie, archt., 254 Soutn 15th St., Phila., taking bids 2 story and basement, 40 x 117 ft. brick, steel and stone, plain foundation for Bryn Mawr Hospital. $200,000.

Pa., Erie—March 19, by W. F. Thompson, archt., 342 Madison Ave., New York City, 3 story, brick, steel and stone, plain foundation, West 7th St., here, for Y.W.C.A., 134 East 44th St., New York City. $200,000.

Pa., Phila.—Hall—Feb. 28, by F. H. Caven, dir. pub. wks., City Hall, 3 story and basement, 80 x 150 ft. concrete, brick, steel, tile and marble, plain foundation, Germantown Ave. and Haines St. $450,000. P. B. Sinkler, 1225 Chestnut St., archt.

Pa., Phila.—F. E. Hahn, archt., 1112 Chestnut St., taking bids 5 story and basement, 141 x 150 ft. rein.-con., brick and steel, Broad and Pine Sts., for Y.M.H.A. A. M. Greenfield, 15th and Chestnut Sts., pres. Noted Nov. 30.

Md., Baltimore—Apartment—Feb. 19, by T. W. Pietsch, archt., American Bldg., 4 story, 112 x 116 ft., brick, 39th St. and University Parkway, for Carolina Apartments Co., Gaither Estate Bldg. $150,000. H. F. Doeleman, 507 North Charles St., engr.

Tenn., Johnson City—Hotel—Feb. 26, by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, 10 story, brick and stone, concrete foundation, for Johnson City Hotel Co.

O., Cleveland—Apartment—M. Margolin, 548 East 112th St., taking bids 4 story, 37 x 124 ft., brick and steel, 1944 East 75th St. $150,000. M. Weis, 617 Union Bldg., archt. Noted Jan. 25.

O., Gambier—Dormitory—Feb. 19, by A. Garfield, archt., Natl. City Bldg., Cleveland, constructing Leonard Hall, 4 story and basement, brick, steel and concrete, here, for Kenyon College, c/o W. T. Pierce, pres. $200,000. Noted Nov. 30.

O., Greenfield—High School—March 10, by School Bd., 2 story, concrete and brick, plain foundation. $200,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

O., Lorain — Clubhouse — Feb. 24, by P. Rissman, archt., Lorain, 5 story, 50 x 200 ft., brick, steel and concrete addition, Bway., for F.O.E., c/o P. Cook, chn. building com. $200,000.

Ill., South Chicago (Chicago P. O.)—Hospital—E. E. Hall, archt., 123 West Madison St., Chicago, receiving bids 4 and 5 story, 125 x 149 ft. rein.-con., brick and steel, 11th and Perry Sts., here, for South End Hospital Asn., 11212 South Michigan Ave., Chicago, $300,000. Noted Feb 1.

Wis., Green Bay—Office—Oppenhamer & Obel, archts., Nicollet Bldg., taking bids additional story to present 7 story, 100 x 160 ft., rein.-con. and brick, Washington St., for J. J. Bellin, Bellin Bldg. $150,000.

Wis., Milwaukee—Apartment—Rosman & Wierdsma, archts., 424 Jefferson St., taking bids and opens same about Feb. 19, for 3 story and basement, 55 x 110 ft., brick, tile and concrete, plain foundation, Cass St., for Ranco Corp., c/o architects. $150,000.

Wis., Wausau—Club House—Feb. 20, by Elks Building Corp., c/o J. Lull, 622 1st St., and Oppenhamer & Obel, archts., Spencer Bldg., 3 story and basement, 64 x 112 ft., brick, tile and concrete, plain foundation, Scott and 4th Sts. $150,000.

Ia., State Center—High School—Feb. 26, by Bd. Educ., 2 story and basement, rein.-con., brick, tile and stone. $150,000. H. E. Reimer, Marshalltown, archt. Noted Nov. 17, 1921.

Ia., Wapello—School—March 9, by Bd. Educ., 2 story and basement rein.-con. brick, tile and stone. $150,000. Keffer & Jones, 204 Masonic Temple, Des Moines, archts. Noted Jan. 25.

Ia., Cedar Falls—High School—Feb. 27, by Bd. Educ., 3 story and basement, 115 x 146 ft., rein.-con., brick, tile and stone. $150,000. V. W. Johnson, secy. J. G. Ralston Co., Waterloo, archts. Noted Jan. 25.

Minn., Minneapolis—High School—Feb. 23 (change of date), by Bd. Educ., 305 City Hall, 3 story and unfinished basement, 45 x 250 x 300 ft., with 1 story, 60 x 80 ft. wing, rein.-con., brick and tile, 26th St. and Emerson Ave. S. $550,000. Div. Design and Inspection, 245 9th Ave. N., archts. Noted Feb. 1.

Minn., Minneapolis—Office—Feb. 19, by Northwestern Natl. Life Insurance Co., 11 St. and Nicollet Ave., 3 story and basement, 58 x 113 x 118 x 137 x 175 ft., rein.-con., brick, tile and Indiana limestone, 15th and Oak Grove Sts. $400,000. Hewitt & Brown, 1200 2nd Ave. S., archts. Noted March 2.

Kan., Wichita—Jail—March 12, by F. Horn, clk. Sedgwick Co., 3 story, brick and steel, plain foundation, Court House Grounds. $200,000. M. Roseberry, co. engr. W. N. Bowman, Central Savings Bank Bldg., Denver, Colo., archt. Noted Jan. 4.

Calif., Los Angeles—Office—J. C. Austin, archt., Baker-Detwiler Bldg., receiving bids 8 story and basement, rein.-con. and brick, 12th St. for Chamber of Commerce, Chamber of Commerce Bldg.

Calif., Mountain View—High School—Feb. 24, by Trustees Mountain View High School Dist., 2 story, rein.-con. To exceed $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted Jan. 25.

Ont., Uxbridge—High School—Feb. 21, by T. F. Thompson, secry. Bd. Educ., 2 story, 8 room, concrete, brick and steel. $150,000. D. R. Franklin, 587½ Yonge St., Toronto, archt.

BIDS RECEIVED

N. Y., Jamestown — High School — Bd. Educ., East 2nd St., opened bids Feb. 9, general contract Junior High School, Front St., from Warren Constr. Co., Gobey Bldg., $263,800, C. C. Haas, Monroe and 10th Sts., $279,283, Mullen, Guinane & Ludwig, 10 Prendergast Bldg., $291,423; heating and ventilating, from F. W. Asker, 851 Spring St., $38,320, French & Keith, Randolph, $41,645, Johnson Heating Co., New York City (street address not available) $44,268. Noted Jan. 11.

Pa., Phila.—Schools—Director Bd. Educ., 19th and Chestnut Sts., opened bids Feb. 8, for two 4 story and basement, 148 x 172 ft. brick, steel and stone schools, on (1) Large and Wakeling Sts. and (2) Knoor and Cottman Sts., from McCloskey & Co., 1620 Thompson St., (1) $442,322 (2) $476,572; Cramp & Co., Denckla Bldg., (1) $448,765 (2) $443,931; Kober Constr. Co., Middle City Bldg., (2) $457,600. Noted Feb. 1.

CONTRACTS AWARDED

Conn., Hartford—Bank and Office—Phoenix Natl. Bank, Main St., 7 story, 60 x 170 ft., stone, marble and concrete, City Hall Sq., to Marc Eidlitz, 30 East 42nd St., New York City. Archts. est. $500,000. Noted Feb. 8.

N. Y., New York—Apartment—A. Bricken Constr. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., 6 story, 75 x 75 ft., brick, steel and stone, plain foundation, 130 West 16th St., by day labor. $150,000.

N. Y., New York—Apartment—M. Smoleroff, c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., two 6 story, 100 x 100 ft., brick, steel and stone, plain foundations, Wadsworth Ave. and 176th St., by day labor.

N. Y., New York—Apartment—M. Silberman, c/o Goldner & Goldner, archts. and engrs., 47 West 42nd St., 5 story, 100 x 125 ft., brick, steel and stone, plain foundation, West 97th St., by day labor.

N. Y., New York—Apartment—J. Wacht c/o J. M. Felson, archt. and engr., 1133 Bway., 5 story, brick, steel and stone, plain foundation, Sedgwick Ave., by day labor. $300,000.

N. Y., New York—Y.M.C.A., 2 West 45th St., 20 story, 75 x 100 ft., brick, steel and stone, plain foundation, 333 West 56th St., to G. A. Fuller Co., 175 5th Ave. Archts. est. $1,200,000. Noted June 29.

N. Y., Niagara Falls—High School—Bd. Educ., general contract brick and steel high school to replace one recently destroyed by fire, to Laur & Mack, 1400 College Ave., $534,000; plumbing work, to Gormley Heating & Plumbing Co., 1912 Lockport Ave., $24,880; heating and ventilating work, to Danforth Co., St. Louis, Mo. (street address not available) $60,375. Noted Jan. 11.

N. J., Trenton—High School—Committee of Buildings and Grounds of Bd. Educ. in meeting room of Bd. Administration, 9 South Stockton St., general contract Junior High School 3, to C. J. Smith Constr. Co., 292 Academy St., $778,000; heating and ventilating work, to E. G. Woolfolk, & Co., 17 West 38th St., New York City, $91,464; plumbing, to N. Connolly, 1404 North 13th St., Phila., $51,192; electrical work, to A. W. Bensel, Virginia Ave., Atlantic City, $27,514. Noted Jan. 18.

Pa., Middletown—Home—I. O. O. F., 17th and Tioga Sts., Phila., 3 story and basement, 38 x 299 ft. with 2 wings, 33 x 154 ft., brick, steel and stone, plain foundations, here, to Shamokin Lumber Co., Shamokin, $309,000. Noted Feb. 8.

Pa., Phila.—Apartment—T. H. Hargest, 501 North 52nd St., 6 story and basement, 208 x 214 ft., 46th and Walnut Sts., to J. R. Wiggins Co., 18th and Cherry Sts., $900,000. Noted Feb. 8.

N. C., Raleigh—School—City, 3 story and basement, brick, Wiley School, Morgan St., to C. V. York, Citizens' Bank Bldg., $151,884. Noted Sept. 7.

W. Va., Huntington—High Schools—Bd. Educ., constructing Lincoln Jr. High School, (20 rooms) brick, 25th St. and 10th Ave., to R. M. Bates, Jr., 416 11th St., $150,000; Douglass Jr. High School, (15 rooms) brick, 10th Ave., to W. F. Diehl, Robson-Prichard Bldg., $110,000.

Ga., Atlanta—Office—Glenn Estate 10 story and basement, rein.-con. and steel, rock foundation, Marietta and Spring Sts., to George A. Fuller Co., Munsey Bldg., Wash., D. C., $400,000. Noted Jan. 25.

Ga., Atlanta—Office, etc.—Massell Realty Co., Healey Bldg., will build 6 story and basement, warehouse and office building, rein.-con., steel, brick and concrete, rock foundation, Marietta and Jones Sts., by day labor. $175,000.

Ga., Atlanta—Office—McGlawn & Bowen, 11 story and basement, rein.-con., steel and brick, rock foundation, Fairlee and

Buildings (Continued)

Luckie Sts., to Gude & Co., Candler Bldg., $200,000.

Fla., Bradentown—Pos Office, etc.—C. H. Ewing, 5 North La Salle St., Chicago, and Sarasota, Fla., 1 and 2 story, rein.-con. and stucco, post office, store and office building, Manatee and Florida Aves., to T. W. Hullinger & Son, Bradentown, $200,000.

O., Dayton — Office — See "Industrial Works."

Mich., Detroit — Mercantile — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., 10 story, basement and sub-basement, 36 x 100 ft. rein.-con., brick and steel, plain foundation, Woodward Ave., to Bryant & Detwiler, 2336 Dime Bank Bldg., for J. L. Hudson Co., Woodward Ave. Noted Dec. 21.

Ill., Chicago—Apartment—J. H. Larson, 7303 Exchange Ave., 3 story and basement, 80 x 153 ft., rein.-con., brick and steel, 4540-46 Woodlawn Ave., to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago—Apartment—M. McHugh, 6226 Ellis Ave., 3 story, 97 x 134 ft., rein.-con., brick and steel, 1821-31 East 72nd St., to Turnquist Bros. Constr. Co., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago—Apartment—R. W. Matteson, 140 South Dearborn St., 3 story, 122 x 126 ft., rein.-con., brick and steel, 900-18 George St., to A. Lindstrom, 30 North Dearborn St. Archts. est. $150,000.

Ill., Chicago—Apartment—E. A. Sward, 6830 Chappel Ave., 3 story, 127 x 141 ft., rein.-con., brick and steel, 2301-13 East 70th St., to Rune & Son, 6142 Rhodes Ave. Archts. est. $175,000.

Ia., Des Moines—Office—Silverberg & Lince, S. and L. Bldg., superstructure 6 story and basement, 67 x 130 ft., rein.-con., brick, tile and stone, 5th and Walnut Sts., general contract, to A. H. Neumann & Co., 519 Hubbell Bldg., about $185,000. Total cost $500,000. Noted Feb. 1.

Minn., Minneapolis — Hotel — Nicollet Hotel Corp., 520 1st Natl.-Soo Line Bldg., 10 story and basement, rein.-con., brick and tile, Washington and Hennepin Aves., general contract to C. F. Haglin & Sons Co., 226 Lumber Exchange. Archts. est. $3,000,000.

Minn., Minneapolis—Store and Apartment—I. S. Whitman, 932 Hennepin Ave., 4 story and basement, 110 x 159 ft., rein.-con., brick and tile, 11th St. and 2nd Ave. S., general contract to M. Glassberg, 2 North 10th St. Archts. est. $150,000.

Kan., Hutchinson—Hotel—The 5th Ave. Bldg. Corp., general contract 5 story and basement, 50 x 150 ft., brick and steel, to Stamey-Mackey Constr. Co., Hutchinson, $200.000. Archts. est. $225,000.

Neb., Omaha — Club — B.P.O.E., Elks Bldg., 8 story and basement, 132 x 132 ft., rein.-con., brick, stone, terra cotta and steel, 18th and Dodge Sts., general contract to Vaughn Constr. Co., 322 W.O.W. Bldg., $516,762; heating and ventilating to J. J. Hanighen Co., 617 South 14th St. Total cost $1,500,000. Noted Feb. 8.

Ore., Eugene — Hospital — Eugene Bible University Assn., will build 5 story, 53 x 124 ft., wood, cement foundation, by day labor under supervision of J. R. Ford, archt., Eugene. $150,000.

Calif., Glendale—High School—Glendale High School Dist., 2 story, administration, auditorium and classroom building, 2 story, rein.-con. science building, general contract to North-Pacific Constr. Co., Baker-Detwiler Bldg., Los Angeles, $457,865. Noted Jan. 18.

Calif., Long Beach—Store—Buffum Dept. Store, Bway., 6 story and basement, concrete and steel, to W. G. Reed, Brook Bldg., $350.000.

Federal Government Work

BIDS DESIRED

R. I., Providence—Dredging—March 7, at office U. S. Engineer, Providence, dredging in Connecticut River, Conn.; adv. this issue.

N. Y., New York—Dredging—March 15 at office U. S. Engineer, 710 Army Bldg., 39 Whitehall St., dredging in Newtown Creek; Adv. this issue.

W. Va., Huntington—Houses—March 17, at office U. S. Engineer, lockkeepers double houses at Dams 14 and 26, Ohio River; adv. this issue.

Ala., Florence—Barge—March 12 at office U. S. Engineer, 1 steel barge; adv. this issue.

Miss., Gulfport—Stack—Spec. 4781—Feb. 21 by Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick stack at U. S. Veterans Hospital, here; adv. this issue.

Wyo., Riverton—Turbine and Generator, etc.—March 13 at office U. S. Recl. Serv., Denver, Colo., furnishing 1 hydraulic turbine, generator etc., for Pilot Butte power plant, here; adv. this issue.

Calif., Mare Island—Riprapping—Spec. 4775—March 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing and placing approximately 50,000 ton hard stone riprap to form embankment along longitudinal dike, Navy Yard, here. L. E. Gregory, ch. of bureau. Noted Feb. 1.

Cuba., Guantanamo — Distilling Apparatus, etc.—Spec. 4769—Feb. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling apparatus and heater, at Naval Station, here. L. E. Gregory, ch. of bureau; adv. this issue. Noted Dec. 21.

BIDS RECEIVED

N. Y., Chelsea—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment in administrative building, mess hall, etc., U. S. Veterans Hospital, here, from S. W. Ritenhouse, 1327 Taylor St., N. W., Wash., D. C., $44,377; S. Faith & Co., 2427 Pennsylvania Ave., Phila., $47,000; Noland-Clifford Co., 322 28th St., Newport News, Va., $50,656. Noted Jan. 25.

Va., Norfolk — Dredging — Spec. 4771 — Bureau Yards & Docks, Navy Dept., Wash., D. C., opened bid Feb. 7, dredging approximately 14,000 cu.yd. at Navy Yard, here, (1) work complete, from Norfolk Dredging Co., Campostella Wharf, (1) $0.395 per cu. yd. (30 days) (2) same as (1). Noted Feb. 1.

Wash., Puget Sound—Fuse and Detonator House—Spec. 4750—Bureau Yards & Docks, Navy Dept., Wash., D. C., fuse and detonator house, here, from Miller Bros., 221 Burwell Ave., Bremerton, $6,674 (60 days); C. P. Martin, 204 Seaboard Bldg., Seattle, $7,413 (59 days); A. H. Kopper, 322 10th St., Port Angeles, $7,735 (60 days). Noted Jan. 11.

Calif., San Diego — Water Softening Plant—Spec. 4768—Bureau Yards & Docks, Navy Dept., Wash., D. C., water-softening plant at Naval Base, here, from International Filter Co., 333 West 21st St., Chicago, $2,169; Permuttit Co., 440 5th Ave., New York City, $3,680; G. E. Eng. Co., 449 West 42nd St., New York City, $4,233. Noted Jan. 25.

Calif., Tiburon—Water Supply System—Spec. 4716—Bureau Yards & Docks, Navy Dept., Wash., D. C. water supply system at Naval Fuel Depot, here, from J. Pringle, Burlingame, $4,800 (90 days); Marin Municipal Water Dist., 425 5th Ave., San Raphael, $5,572; J. T. Walsh, 73 Tremont St., San Francisco, $5,692. Noted Jan. 11.

Miscellaneous

PROPOSED WORK

Gas Mains—Raleigh, N. C.—Carolina Power & Light Co., Raleigh Banking and Trust Co. Bldg., plans laying new high pressure gas mains across western and northern sides of city to improve general pressure throughout company's distribution system. Will feed into present distribution system at number of points through pressure reducing valves. P. A. Tillery, genl. mgr.

Wharf and Shed—New Orleans, La.—Bd. Port Comrs. Eng. Dept., 1 Canal St., preparing preliminary plans for wharf and shed at foot of St. Joseph St., 790 ft. long, 225 ft. wide, front of wharf may be built of concrete and steel, rear paved slab on fill. $600,000.

Stadium—Danville, Ky.—Athletic Assn. of Center College having plans prepared by Osborn Eng. Co., engrs., 2848 Prospect Ave., S. E., Cleveland, O., rein.-con. stadium, 8,000 seating capacity. Address C. B. Moran, dir.

Stadium — East Cleveland (Cleveland, P. O.) **O.**—Bd. Educ. retained Osborn Eng. Co., archts. and engrs., 2848 Prospect Ave. S. E., Cleveland, to prepare plans for stadium, (10,000 seating capacity) on Shaw Field. C. A. Tilden, dir. schools.

Transmission Lines — Minnesota — Little Falls Water Power Co., Little Falls, plans transmission line from Lastrup (R. D. Pierz) to Onamia, Wahkon and Isle. A. V. Taylor, Little Falls, mgr.

Swine Barn—St. Paul, Minn.—State Fair Bd., State Fair Grounds, plans brick, concrete and steel. $150,000. T. H. Canfield, secy. C. H. Johnston, 715 Capital Bank Bldg., archt.

Transmission Line—Kanorado, Kan. City—had plans prepared transmission line. $25,000 bonds voted W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs. Noted Jan. 18.

Swimming Pool—Wichita, Kan.—Ordinance passed for rein.-con. swimming pool in South Riverside Park. $75,000. P. L. Brockway, city engr.

Electric Lights and Standards—St. Louis, Mo.—Soon lets contracts prism lights and concrete standards on Watson Rd. and Clara Ave., $35,000. R. Toensfeldt, City Hall, engr.

Fire Equipment — St. Louis, Mo. — See "Buildings."

Street Lighting Equipment, etc.—St. Louis, Mo. — Voted $8,000,000 bonds for street lighting equipment, $6,000,000 for plaza and buildings, $2,500,000 for new public parks, playgrounds, recreation fields and swimming pools, land buildings, etc., $1,300,000 for improvements to old parks, etc., $2,600,000 for Union Sta. plaza and $1,600,000 (citys share) for grade crossing elimination.

Dock, etc.—Portland, Ore.—Union Oil Co., 611 Yeon Bldg., having plans prepared and takes bids in about 60 days, for dock 300-350 ft. long, oil tanks, pumping plant, pipe lines, tracks and small buildings. $500,000. Company engineers will supervise work. V. H. Kelley, mgr.

Estuary Tube—Oakland, Calif.—Alameda Co. plans election to vote on $3,500,000 bonds for tube under Oakland estuary at Webster St. G. A. Posey, Co. surv.

Tunnel—Sacramento, Calif.—See "Industrial Works."

Tunnel — Santa Barbara, Calif. — See "Waterworks."

Tunnel, Pier, etc.—Canada—See "Railways."

Grain Elevator—Montreal, Que.—Harbor Comrs. soon take bids grain elevator on Tarte Pier, at foot of Micolet St., 10,000,000 bu. capacity, incl. marine towers, track sheds, receiving house, storage house, shipping houses, etc. $10,000,000. M. P. Pennell, genl. mgr. J. S. Metcalfe Co. Ltd., 54 St. Francois Xavier St., engrs.

Subway—Montreal, Que.—Had plans prepared for rebuilding Ontario St. subway. $300,000 bonds will be voted on in March. H. A. Tetreault, dir. pub. wks.

BIDS DESIRED

Cement, Trap Rock, etc—Holyoke, Mass.—Feb. 27, by Bd. Pub. Wks., furnishing seasons supply of cement, trap rock, pitch, cold patch and curbing, in carload lots. G. F. Stone, assistant clk.

White and Rock Oak Plank, etc.—Elmira, N. Y.—Feb. 19, by Bd. Pub. Wks., furnishing 50,000 ft. of 3 x 6, 3 x 8, 3 x 10 and 3 x 12 white and rock oak plank, 12-16 ft. lengths, also 150,000 gal. road oil. G. W. Jarchow, city clk.

Scarifier—Leroy, N. Y.—Town Bd. receiving bids road scarifier. $1,000. Address H. B. Ward, mayor.

Sanitary Work, etc.—Middletown, N. Y.—Feb. 28, by State Hospital Comn., Albany, sanitary work, additional fire protection and water supply, at Middletown State Homeopathic Hospital, here. L. F. Pilcher, Albany, state archt.; adv. this issue.

Corporation Cocks, etc.—New York, N. Y.—Feb. 21, by Bd. Purch., Municipal Bldg., furnishing and delivering corporation cocks and hydrant repair parts to Dept. Water Supply, Gas and Electricity. G. A. Whalen, chn.

Power Development—Watertown, N. Y.—Feb. 24, to vote on $365,000 bonds to develop municipal power at Delano Falls. Address J. Ackerman, city mgr.

Bricks—Wilkinsburg, Pa.—Feb. 26, by W. N. Baker, boro. secy., 400,000 or more vitr. repressed lug bricks, 3.5 x 4.5 x 8.5 in. C. E. Sperling, boro. engr.

Gas Extensions, etc.—Tampa, Fla.—Tampa Gas Co., 201 Madison St., receiving bids extending present system and installing new gas equipment, 2,500,000 cu.ft. daily capacity. $175,000. R. Nettles, 703 South Newport St., engr.

Lime Dust, etc.—Cleveland, O.—Feb. 21, for 500 ton lime dust, 4,000 bbl. Portland cement, 10,000 ton asphalt sand, 1,000 ton asphalt, 1,500 ton bituminous filler, 60,000 ton shale, 530,000 five in. standard, 270,000 five in. repair, 200,000 four in. standard and 100,000 four in. repair paving bricks.

Steam Roller, etc.—Cleveland, O.—Commissioner of Purchases & Supplies, taking bids one 2½ ton steam roller and one 5 ton motor truck.

Dredge—Fond du Lac, Wis.—A. M. Hunter, secy. Bd. Park Comrs., taking bids ¾ to 1 yd. bucket dredge, caterpillar type, drag line, to be used on floating barge.

Lumber and Culvert Metal—Marion, Ia.—Feb. 21, by Auditor Linn Co., furnishing 5 cars full sawed Douglas fir, 2 cars full